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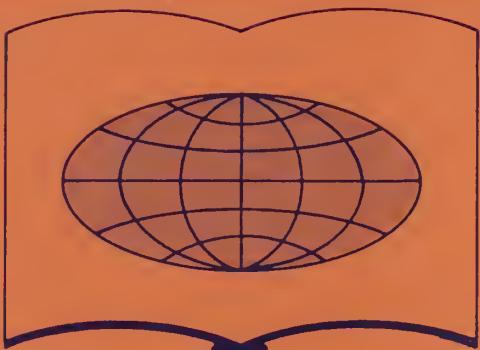
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# Pesticides DOCUMENTATION BULLETIN

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Volume 5  
September 5, 1969

Number 18



*Use Pesticides Safely*  
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U.S. DEPARTMENT OF AGRICULTURE

# PESTICIDES DOCUMENTATION BULLETIN

329830

A Bi-Weekly Publication of U.S. Department of Agriculture

Volume 5  
September 5, 1969  
Number 18

## OBJECTIVES AND SCOPE

The *Pesticides Documentation Bulletin* is compiled by the National Agricultural Library's Pesticides Information Center to facilitate national research efforts in all aspects of pest control. This bi-weekly index to the literature includes coverage of diseases, insects, nematodes, parasites, weeds and other pests affecting plants, animals, man, our natural resources and other values in man's environment. Special emphasis is given to the literature on toxicological, physiological and epidemiological aspects of pests and their control by chemical biological and integrated methods.

For broader coverage of literature on agriculture and related subjects, please consult the *Bibliography of Agriculture*, a monthly publication of the National Agricultural Library.

## FORMAT

The *Bulletin* is a categorized bibliography, with citations arranged alphabetically by author under the following major subjects:

- 10 Entomology
- 20 Crop Protection
- 30 Livestock Protection
- 40 Commodity Protection
- 50 Environmental Contamination
- 55 Residues
- 60 Toxicology
- 65 Plant Physiology & Biochemistry
- 70 Chemistry
- 80 Engineering
- 90 Industry

**Citations:** Each citation consists of an accession number assigned serially with the last two digits representing the Bulletin's issue year, i.e. 3286-67. The citation number (minus the year) is used in all indices. Following the accession number is the full title of the article; all personal authors; an abbreviated journal title; volume, issue and inclusive page numbers; date of publication; language abbreviation, if other than English; and the National Agricultural Library's call number. Subject descriptors, patent or grant numbers, bibliographer's notes, and abstracts or extracts may follow each citation when appropriate.

**Subject Index:** Subject descriptors appear in the index followed by title arranged numerically by accession number. The Agricultural/Biological Vocabulary developed by the National Agricultural Library is used as a basic thesaurus of descriptors.

**Biographical Index:** Names of first authors are arranged alphabetically, followed by organizational affiliation and accession number.

**Author Index:** Names of personal authors are arranged alphabetically, followed by accession numbers of pertinent citations.

**Organizational Index:** Names of corporate authors or sponsoring organizations are arranged alphabetically followed by accession numbers of pertinent citations.

## Other Files

In addition to the citations contained in the Bulletin, the Pesticides Information Center maintains two other files, the INTREDIS Register and the Herbicides Data File.

The INTREDIS Register is a computer data bank in the field of forest pathology. It contains title and author references to abstracted articles including subject, country, host plant genus or species, organisms causing the diseases, abstracting journal and year of publication. The computer search uses boolean parameters in any combination of elements listed.

The Herbicides Data File consists of reports on field tests conducted by the Crops Protection Research Branch, Crop Research Division, Agriculture Research Service. Each test record contains the following items of information:

- Compound Tested
- Company furnishing the compound
- Author or Investigator
- Test Sponsor
- Date
- Location
- Mode of Application
- Rates of Application
- Soil Types
- Carriers
- Crops or Weeds tested with phytotoxicity ratings
- Associated documentation

Note: Items subject to proprietary restriction will be suppressed when appropriate.

## AVAILABILITY OF REFERENCES CITED

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PESTICIDES INFORMATION CENTER  
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## ACKNOWLEDGMENT

The Pesticides Information Center, National Agricultural Library, gratefully acknowledges the cooperation and assistance of the Department of Defense; Health, Education, and Welfare; and Interior; the Federal Committee on Pest Control, and state and industrial organizations in the development of the Center and preparation of this Bulletin. Special thanks are expressed to the Federal Committee on Pest Control for its suggestions and support. We hope the Bulletin will serve as an example of the effectiveness of interdepartmental cooperation and the speed with which effective services can be developed through a coordinated and cooperative interdepartmental effort.

Use of funds for printing this publication approved by the Director of the Bureau of the Budget (May 23, 1968).

**PLEASE GIVE COMPLETE BIBLIOGRAPHIC INFORMATION AS IT APPEARS IN THIS PUBLICATION FOR EACH ITEM REQUESTED.**

This publication reports research involving pesticides. It does not contain recommendations for their use, nor does it imply that the uses discussed here have been registered. All uses of pesticides must be registered by appropriate State and/or Federal agencies before they can be recommended.

**CAUTION:** Pesticides can be injurious to humans, domestic animals, desirable plants, and fish or other wildlife—if they are not handled or applied properly. Use all pesticides selectively and carefully. Follow recommended practices for the disposal of surplus pesticides and pesticide containers.

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\*This issue does not contain citations under this category.

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#### SYSTEMATICS

10487-69  
ORTHOPTEROID INSECTS OF EAST NEPAL.  
G Ya Bey-Biyenko  
*Entomol Rev* 47(1 JAN-MAR):59-72 REF  
Mar 1968 421 R322AE  
Catalogs, Insect ecology, Insect geography, Insect taxonomy, Orthoptera.

10488-69  
NEW SPECIES OF GARGARA LIVING ON COLA AND COCOA TREES IN CENTRAL AFRICA. (FR)  
M. Boulard  
*Cafe Cacao* 12(3 JUL-SEP):236-239  
1968 68.8 C112  
Cocoa, Cola nuts, Gargara, Insect ecology, Insect identification, Insect pests, Insect taxonomy, Membracidae, Zoogeography. English, German, and Spanish summaries. Two new species are described: *G. chichonettiae* and *G. lulliae*.

10489-69  
CULICOIDES MARCLETI N. SP. AND NEW IDENTIFICATIONS OF CULICOIDES (DIPTERA, CERATOPOGONIDAE) OF THE MEDITERRANEAN REGION AND ESPECIALLY OF ALGERIA. (FR)  
J Callot M Kremer M Basset  
*Soc Pathol Exot Bull* 61(2 MAR-APR):271-282  
1968 448.9 SO13  
Ceratopogonidae, Culicoides, Insect identification, Insect taxonomy, Zoogeography. Seven other species of Culicoides are identified.

10490-69  
RHIZOTROGUS MACULICOLLIS VILLA (COLEOPTERA, SCARABAEIDAE) A NEW SPECIES FOR CZECHOSLOVAKIA. (CZ)  
J Cech  
*Acta Ent Bohemoslov* 63(3):240  
1966 420 C33  
Insect taxonomy, Rhizotrogus maculicollis, Scarabaeidae, Zoogeography. English summary.

10491-69  
MITES OF THE FAMILY RHINONYSSIDAE (PARASITIFORMES) PARASITES IN THE NASAL CAVITY OF BIRDS OF THE GENUS LANIUS L. FROM RUMANIA. (FR)  
Z Feider I Mironescu  
*Folia Parasitol* 16(1):19-39  
1969 436.8 C33  
Acarina, Birds, Insect taxonomy. English abstract.

10492-69  
A NEW SPECIES OF ARENIVAGA FROM DESERT SAND DUNES IN SOUTHERN CALIFORNIA (DICTYOPTERA: POLYPHAGIDAE).  
J J Friauf E B Edney  
*Entomol Soc Wash Proc* 71(1):1-7  
Mar 1969 420 W27  
Blattidae, Dunes, Insect taxonomy, Orthoptera, Zoogeography.

10493-69  
CHRYSOMELID BEETLES FROM THE PAPUAN SUBREGION (EUMOLPINAE).  
J L Gressitt  
*Pacific Insects* 11(1):1-31  
1969 421 P11  
Catalogs, Chrysomelidae, Insect geography, Insect taxonomy.

10494-69  
THE BIBIONIDAE (DIPTERA) OF THE PHILIPPINES.  
D E Hardy M D Delfinado  
*Pacific Insects* 11(1):117-154  
1969 421 P11  
Bibionidae, Catalogs, Insect geography, Insect taxonomy.

10495-69  
THE GENUS EVAZA IN THE PHILIPPINES AND THE AUSTRALASIAN REGION (DIPTERA: STRATIOMYIDAE).  
M T James  
*Pacific Insects* 11(1):81-116  
1969 421 P11  
Catalogs, Evaza, Insect geography, Insect taxonomy, Stratiomyidae.

10496-69  
NEW RECORDS OF TWO NASAL MITES FROM JAPANESE RODENTS (ACARINA: EPIDERMOPHTIDAE AND EREYNETIDAE).  
K Kaneko  
*Jap J Sanit Zool* 19(3):161-164  
20 Oct 1968 QL99.E3  
Epidermoptidae, Eupodidae, Insect taxonomy, Mites, Rodents. Japanese summary.

10497-69  
SYSTEMATICS OF THE CRYPTOCOPEPHALINAE (COLEOPTERA, CHRYSOMELIDAE) FROM SOVIET CENTRAL ASIA AND KAZAKHSTAN.  
I K Kopatin  
*Entomol Rev* 46(1 JAN-MAR):126-131  
1967 421 R322AE  
Chrysomelidae, Cryptocephalinae, Insect taxonomy.

10498-69  
THREE NEW SPECIES OF SARACOSOLOMONIA BARANOV, 1938 (DIPTERA: SARCOPHAGIDAE).  
H des Lopes R Kano  
*Pacific Insects* 11(1):181-185  
1969 421 P11  
Insect geography, Insect taxonomy, Sarcophagidae.

10499-69  
NEW AND LITTLE KNOWN PALEARCTIC CECIDOMYIIDAE OF THE TRIBE PORRICONDYLINI (DIPTERA, CECIDOMYIIDAE). (RUS)  
Bim Mamaiev  
*Acta Ent Bohemoslov* 63(3):213-239 REF  
1966 420 C33  
Cecidomyiidae, Insect identification, Insect taxonomy, Palearctic Region, Zoogeography. 4 new genera and 20 new species are described. English and Czech summaries.

10500-69  
AN INVESTIGATION OF THE CULICIDAE OF CHARENTE-MARITIME; THE OCCURRENCE OF THE GENUS MANSONIA BLANCHARD 1901: M. (COQUILLETIDIA) RICHARDII (FICALBI) 1896 AND M. (C.) BUXTONI (EDWARDS) 1923. (FR)  
M Mandoul M Dubos C Moulinier M de Cournaud  
*Soc Pathol Exot Bull* 61(2 MAR-APR):282-288 REF  
1968 448.9 SO13  
Aquatic insects, Culicidae, Insect identification, Insect taxonomy, Insecticide resistant insects, Larvae, Littoral insects, Mansonia, Zoogeography.

10501-69  
TWO MYOBIID MITE SPECIES (ACARINA: MYOBIIDAE) FROM SHREWS OF HOKKAIDO, JAPAN. (JA)  
Z Ono  
*Jap J Sanit Zool* 19(3):191-194  
20 Oct 1968 QL99.E3  
Myobiidae, Rodents, Zoogeography. English summary.

10502-69  
REDESCRIPTION OF THREE SPECIES OF MEALIA TROUESSART, 1897 (ACARINA: PYROGLYPHIDAE) FROM HOUSE DUST IN JAPAN. (JA)  
S Oshima  
*Jap J Sanit Zool* 19(3):165-191 REF  
20 Oct 1968 QL99.E3  
Dermatophagoides, Household insects, Insect identification, Insect taxonomy, Mites. English summary.

10503-69  
ANTS (FORMICIDAE) COLLECTED IN AFGHANISTAN BY DR. J. KLAPPERICH. (GE)  
B Pisarski  
*Pol Pismo Entomol* 37(1):47-51  
15 Aug 1967 421 P76  
Formicidae, Insect identification, Zoogeography. 20 species are discussed. Polish summary.

10504-69  
MATERIALS CONCERNING THE KNOWLEDGE OF THE PALEARCTIC MOMPHIDAE (LEPIDOPTERA). PART VIII. DISTRIBUTION OF THE MOMPHIDAE IN POLAND. (FR)  
T Riedl  
*Pol Pismo Entomol* 37(1):25-46 REF  
15 Aug 1967 421 P76  
Insect identification, Lepidoptera, Momphidae, Zoogeography. Information on 40 species. Polish summary.

10505-69  
PIERIS VIRGINIENSIS EDWARDS IN ONTARIO (LEPIDOPTERA: PIERIDAE).  
J C E Riotti  
*Entomol Soc Ontario Proc* 98:27-29  
1967 420 ON8  
Insect identification, Nomenclature, Pieridae, *Pieris napi*, *Pieris virginensis*, Zoogeography.

10506-69  
CONTRIBUTION TO THE FAUNA OF THE CONGO (BRAZZAVILLE). MISSION OF A. VILLIERS AND A. DESCARPENTRIES. XLVI. LEPIDOPTERA ATTACIDAE. (2ND NOTE). (FR)  
P C Rougeot  
*Inst Fondamental Afr Noire Bull Ser A Sci Natur* 29(1):345-346  
Jan 1967 515 D14  
Insect taxonomy, Lepidoptera, Saturniidae, Zoogeography.

10507-69  
NEW SPECIES OF MITES FROM PINE (ACARINA: TARSOCHELIDAE, EUPALOPSELLIDAE, CALIGONELLIDAE, CRYPTOGNATHIDAE, RAPHIGNATHIDAE, AND NEOPHYLLOBIIDAE).  
R L Smiley J C Moser  
*Entomol Soc Wash Proc* 70(4):307-317  
Dec 1968 420 W27  
Insect taxonomy, Mites, *Pinus taeda*, Raphignathidae, Zoogeography.

10508-69  
CONTRIBUTION TO THE FAUNA OF THE CONGO (BRAZZAVILLE). MISSION OF A. VILLIERS AND A. DESCARPENTRIES. XLVII. HOMOPTERA CERCOPIDAE AND FULGOROIDEA. (FR)  
H Synave  
*Inst Fondamental Afr Noire Bull Ser A Sci Natur* 29(1):347-369  
Jan 1967 515 D14  
Cercopidae, Homoptera, Insect taxonomy, Zoogeography. 55 other species belonging to 13 families and 49 genera are described.

10509-69  
FAUNA OF THE SPRINGTAILS (COLLEMBOLA) OF THE OJCOW.  
A Szeptycki  
*Acta Zool Cracov* 12(10):219-280 MAP REF  
30 Sep 1967 410 AC86  
Collembola, Insect ecology, Surveys, Zoogeography.

10510-69  
METALLINELLA GEN. N. OF THE FAMILY MEGACHILIDAE (HYMENOPTERA, APOIDEA). (GE)  
B Tkalcu  
*Acta Ent Bohemoslov* 63(3):200-202  
1966 420 C33  
Insect identification, Insect taxonomy, Megachilidae, Metallinella, *Osmia atrocaerulea*. Czech and English summaries.

## ENTOMOLOGY

10511-69

**10511-69**  
**ARTHROPODS OF MEDICAL IMPORTANCE IN AUSTRALIA AND THE PACIFIC ISLANDS.**  
B V Travis R M Labadan H H Lee

*U S Army Natick Lab Tech Rep (SER ES-36)(68-61-ES):246 MAP REF*

May 1968 QL487.8

Arthropoda, Disease transmission, Human diseases, Insect vectors, Medical entomology, Zoogeography.

The groups of Arthropoda included mosquitoes, black flies, sand flies, midges, horse flies, biting flies, non-biting flies, fleas, bugs, urticating and vesicating arthropods, ticks, mites and miscellaneous arthropoda.

10512-69

**TARSAL CHAETOTAXY OF ARGAS JAPONICUS YAMAGUTI, CLIFFORD, AND TIFTON, 1968 (IXODOIDEA: ARGASIDAE).**

K Uchikawa A Sato

*Jap J Sanit Zool 19(3):157-161*

20 Oct 1968 QL99.E3

Argas japonicus, Argasidae, Chaetotaxy, Insect anatomy, Insect identification, Insect morphology. Japanese summary.

10513-69

**THE WARBLE FLY, OCHOTONIA LINDNERI GRUNIN, GEN. ET SP.N. (DIPTERA, HYPODERMATIDAE), A PARASITE OF THE AFGHAN PIKA (OCHOTONA RUFESCENS GRAY).**

A P Vazhev

*Entomol Rev 47(1 JAN-MAR):136*

Mar 1968 421 R322AE

Insect taxonomy, Ochotonia lindneri, Oestridae, Parasitic insects.

10514-69

**A CONTRIBUTION TO THE KNOWLEDGE OF THE HALTICINAE OF NORTHERN PERSIA. (GE)**

A Warchałowski

*Pol Pismo Entomol 37(1):53-64 MAP*

15 Aug 1967 421 P76

Chrysomelidae, Dibolia, Epitrix, Insect identification, Longitarsus, Psylliodes, Zoogeography. 19 other species of the same genera are discussed. polish summary.

10515-69

**TWO NEW GENERA OF LEAFHOPPERS (HOMOPTERA, CICADELLIDAE) FROM MONGOLIA.**

A F Ycmlyanov

*Entomol Rev 47(1 JAN-MAR):83-84*

Mar 1968 421 R322AE

Cicadellidae, Insect geography, Insect taxonomy.

10516-69

**TAXONOMY AND PHYLOGENY OF THE CLOTHES MOTH FAMILY (LEPIDOPTERA, TINEIDAE).**

A K Zagulyayev

*Entomol Rev 47(1 JAN-MAR):126-135 REF*

Mar 1968 421 R322AE

Insect evolution, Insect geography, Insect taxonomy, Life cycle, Tineidae.

## PHYSIOLOGY AND BIOCHEMISTRY

10517-69

**BLACK FLIES (DIPTERA, SIMULIDAE) OF VOLOGDA REGION AND THEIR CONTROL.**

S I Adrianov

*Entomol Rev 46(1 JAN-MAR):107-110*

1967 421 R322AE

Insect control, Insect ecology, Simuliidae.

10518-69

**COCKCHAFFERS.**

Anonymous

*Rubber Res Inst Moloyo Plant Bull (97):102-109 MAP*

Jul 1968 78.9 R825

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10526-69

**LEATHERJACKETS.**

A M Feeney

*Dublin Foras Taluntois Plant Sci Crop Husb 119-120, 121*

1967 103 D852

Benzene hexachloride, Chemical control (insects), Chlorinated hydrocarbons, Fenthion, Insect ecology, Insect physiology, Insecticides, Organophosphorus compounds, Plant injuries, Soil insects, Tipulidae.

10527-69

**COMPARISON OF THE EFFECT OF OLD AND NEW, INDIVIDUAL AND MIXED, ANTI COCCOIDAE PREPARATIONS USED AGAINST THE SAN JOSE SCALE. (IT)**

S Foschi P Giunchi G Rapparini

*Giorante Fitopatol 353-356*

26 Mar 1967 SB599.G5

Aspidotis perniciosa, Barium polysulfide, Chemical control (insects), Insect pests, Lime-sulfur, Organophosphorus compounds, Parathion, Petroleum.

10528-69

**INFLUENCING THE METABOLISM IN TENEBRIOS MONITOR (COLEOPTERA) DURING THE PUPAL STAGES BY FARNESYL-METHYL-ETHER. (GE)**

A Geyer G Herda P Schmialek

*Acta Ent Bohemoslov 65(4):253-262 REF*

1968 420 C33

Ethyl ether, Insect biochemistry, Insect metabolism, Pupae, Tenebrio molitor. English and Czech summaries.

10529-69

**TESTS ON THE CONTROL OF THE WHITE PEACH SCALE (PSEUDAULACASPIS PENTAGONA TARG.). (IT)**

P Giunchi I Da Tripoli

*Giorante Fitopatol 357-359 REF*

26 Mar 1967 SB599.G5

Barium polysulfide, Chemical control (insects), Insect pests, Lime-sulfur, Petroleum, Pseudaulacaspis pentagona.

10530-69

**RESEARCH ON THE BIOLOGY AND CONTROL OF TETRANYCHUS VIENNENSIS ZACHER IN THE REGION OF MARMARA. (TU)**

M E Goksu

*Bitki Koruma Bulteni 8(3):194-213 REF*

1968 464.8 B542

Chemical control (insects), Insect biology, Insect identification, Tetranychus.

English summary. the chemicals tested were Delnav, Tedion, a mixture of Tedion and Kelthane, Rogor and Lebayide.

10531-69

**SOME ECOLOGICAL STUDIES ON AGROTIS SEGETUM SCHIFF. (LEPIDOPTERA, NOCTUIDAE). (BU)**

N Guenchev

*Rastenievud Nauk 5(4):127-137 REF*

1968 64.8 R18

Agrotis segetum, Food quality, Insect ecology, Insect morphology, Insect pests, Noctuidae, Soil moisture, Temperature, Vegetables. English and Russian summaries.

10532-69

**INTERACTIONS OF DDT WITH THE NERVOUS SYSTEM OF THE RESISTANT AND SUSCEPTIBLE GERMAN COCKROACHES.**

M Hayashi F Matsumura

*Nature 215(5109):1510-1512*

30 Sep 1967 472 N21

Biochemistry, Blattella germanica, Chemical control (insects), DDT, Immunity, Insecticides, Nervous system, Poisoning.

10533-69

**ON THE TRANQUILLIZATION OF HOUTUYNIA CORDATA THUNB. FOR MALE**

## MOTH IN THE SILKWORM, BOMBYX MORI L. (JA)

Y Higashi

*Belg Biol Inst Posebna Izdanja* 37(2):102-106

Apr 1968 425.9 SE6

Bombyx mori, Houttuynia cordata, Tranquilizers.

10534-69

## THE EXCITED STATE PRODUCTS OF FIREFLY BIOLUMINESCENCE: PROPERTIES AND MECHANISM OF FORMATION. (ABSTRACT).

T A Hopkins H H Seliger E H White

*Fed Amer Soc Exp Biol Fed Proc* 27(2):640

Mar 1968 442.9 F31P

Enzymes, Fertility, Insect biochemistry, Lam-pyridae, Luminescence, Photinus pyralis.

10535-69

## THE EYE OF THE FIREFLY PHOTURIS.

G A Horridge

*Roy Soc Proc Ser B, Biol Sci* 171(1025):445-463

REF

25 Feb 1969 501 L84B

Eyes, Insect morphology, Insect physiology, Photu-ris.

10536-69

## CENTRAL EUROPEAN LARVAL FORMS OF CHLAENIUS BON. (COLEOPTERA, CARABIDAE). (GE)

K Hurka

*Acta Ent Bohemoslov* 63(3):203-212 REF

1966 420 C33

Carabidae, Chlaenius, Insect anatomy, Insect biology, Insect identification, Larvae. English and czech summaries.

10537-69

## METHODS OF QUANTITATIVE DETERMINA-TION OF RICKETTSIA IN TICKS. (RUS)

V F Ignatovich I M Grokhovskaya V E Sidorov

*Med Parazitol Parazitarn Bolezni* 37(3, MAY-JUN):306-309 REF

1968 448.8 M469

Argasidae, Insect vectors, Ixodidae, Mites, Quantitative analysis, Rickettsia. English summary

10538-69

## A TECHNIQUE FOR REMOVING APPENDAGES FROM SMALL, DRY-MOUNTED INSECTS FOR MICROSCOPIC EXAMINATION.

D Jackson

*Entomol Soc Wash Proc* 71(1):93

Mar 1969 420 W27

Insect preservation, Microscopy.

10539-69

## STUDIES ON AMINO ACID COMPOSITION OF MULBERRY PYRALID FIBER. (JA)

K Komatsu

*Belg Biol Inst Posebna Izdanja* 37(2):107-112

REF

Apr 1968 425.9 SE6

Amino acids, Bombyx mori, Fibers, Insect biochemistry, Proteins, Pyralidae. English summary.

10540-69

## TECHNIQUE OF PREPARING SLIDES FOR COCCID (HOMOPTERA, COCCOIDEA) DETERMINATION.

E F Kozarzhevskaya

*Entomol Rev* 47(1 JAN-MAR):146-149

Mar 1968 421 R322AE

Coccoidea, Diaspididae, Insect preservation, Methodology.

10541-69

## NATURAL INFECTION OF CHIGGER MITES WITH RICKETTSIA TSUTSUGAMUSHI ON THE PRIMORSKY TERRITORY. (RUS)

N I Kudryashova L V Mirolyubova I V

Tarasevich L F Plotnikova

*Med Parazitol Parazitarn Bolezni* 37(3, MAY-JUN):302-305 REF

1968 448.8 M469

Animal vectors, Bacterial diseases (insects), Experimental insects, Insect diseases, Larvae, Lu-mincence, Mites, Parasitism, Rickettsia tsutsugamushi, Rickettsial diseases, Rodents, Serological tests, Trombiculidae, Zoogeography. English summary.

10542-69

## A MONOXENIC RELATIONSHIP, NOCARDIA RHODNII ERIKSON IN THE GUT OF RHODNIUS PROLIXUS STAHL. (HEMIPTERA: REDUVIIDAE).

P Lake W G Friend

*Entomol Soc Ontario Proc* 98:53-57 REF

1967 420 QN8

Bacteria, Culture media, Gastrointestinal system, Insect physiology, Microorganisms, Nocardia rhodnii, Parasitism, Reduviidae, Rhodnius prolixus.

10543-69

## EXPERIMENTAL CONDITIONS FOR FEMINIZATION OF THE GONADS OF TRIPLOID INTERSEXES IN DROSOPHILA MELANOGASTER. (FR)

G Lauge

*Acad Sci Compt Rend Ser D Sci Nat* 5(10, 2ND SEMESTER):767-770

04 Sep 1967 505 P21

Drosophila melanogaster, Gonads, Insect physiolo-gy, Intersexuality, Polyploidy, Temperature.

10544-69

## EFFECTS OF THE ANTIFEEDING COMPOUND AC-24055 (4'-{3,3-DIMETHYL-1-TRIAZENO)ACETANILIDE) ON THE SURVIVAL, DEVELOPMENT, AND REPRODUCTION OF SOME STORED-PRODUCTS IN-SECTS.

S R Losehavo

*J Econ Entomol* 62(1):102-107

17 Feb 1969 421 J822

Chemical control (insects), Cryptolectes turcicus, Dimethyl-1-triazeno)acetanilide, 4'-{3,3-, Feeding, Insect morphology, Insecticides, Oryzaephilus mercator, Oryzaephilus surinamensis, Reproduction, Sitophilus granarius, Stored products, Tribolium confusum, Trogoderma parabile.

10545-69

## BIOLOGICAL EFFECTS AND PERSISTENCE OF DURBAN INSECTICIDE IN A SALT-MARSH HABITAT.

P D Ludwig H J Dishburger J C McNeill W O Miller J R Rice

*J Econ Entomol* 61(3):626-633 REF

Jun 1968 421 J822

Aedes sollicitans, Aerial spraying, Chemical control (insects), Diethyl O-(3,5,6-trichloro-2-pyridyl) phosphorothioate, O, i, Insecticide residues, Insec-ticides, Tidal marshes.

10546-69

## THE SALIVARY GLAND CHROMOSOMES OF SEVEN TAXA IN THE SUBGENUS STEGOP-TERNA (DIPTERA, SIMULIIDAE, CNEPHIA).

D P Madahar

*Can J Zool* 47(1):115-119

Jan 1969 470 C16D

Chromosomes, Cnephia, Cytology, Illustrations, Salivary glands (insects), Simuliidae. The seven taxa in the subgenus Stegopterna are: Cnephia mu-tata, C. richteri, C. emergens, C. Y., C. X., C. O., C. W.

10547-69

## CHEMICAL ECOLOGY: FUNGUS-GROWING ANTS. (ABSTRACT).

M M Martin R M Carman

*Science* 158(3800):531

27 Oct 1967 470 SC12

Atta, Culture media, Fungi, Insect nutrition, Insect physiology. Abstract of paper presented at National Academy of Sciences autumn meeting, Ann Arbor, Mich., 23-25 Oct., 1967.

10548-69

## STUDIES ON THE DISEASES OF ASEPTI-CALLY REARED SILKWORMS, BOMBYX MORI L. V. INDUCTION OF NUCLEAR

## POLYHEDROSES BY THE FEEDING OF CER-TAIN CHEMICALS TO THE SILKWORM AFTER TRANSFER FROM ASEPTIC TO NOR-MAL REARING CONDITION. (JA)

F Matsubara

*Belg Biol Inst Posebna Izdanja* 37(2):137-143

REF

Apr 1968 425.9 SE6

Bombyx mori, Chemicals, Feeding, Insect diseases, Insect rearing, Polyhedroses, Viruses. English summary.

The following chemicals were fed to the 5th stage silkworm: ethylenediaminetetraacetic acid, disodium ethylenediaminetetraacetate, sodium diethyl-dithiocarbamate, 8-hydroxyquino-line, hydroxylamine and sodium fluoride.

10549-69

## STUDIES ON THE ENVIRONMENTAL FAC-TORS FOR THE BREEDING OF GRAIN MITES. PART IX. THE EFFECT OF RELATIVE HU-MIDITY ON THE AGE COMPOSITION OF THE POPULATION OF LARDOGLYPHUS KONOI. (JA)

K Matsumoto

*Jap J Sanit Zool* 19(3):196-203 REF

20 Oct 1968 QL99.E3

Environment, Humidity, Insect breeding, Insect physiology, Insect populations, Mites, Reproduction. English summary.

10550-69

## ON THE STERILIZING EFFECT OF HEMPA ON THE COMMON HOUSEFLY, MUSCA DOMESTICA VICINA. II. A FIELD TEST IN SEI ISLAND. (JA)

H Matsuzawa Y Fujii

*Jap J Sanit Zool* 19(3):210-212

20 Oct 1968 QL99.E3

Amides, Biological control (insects), Chemical control (insects), Chemosterilants, Hempa, Musca domestica vicina. English summary.

10551-69

## PHEROMONES. III. IDENTIFICATION OF TRANS, TRANS-10-HYDROXY-3,7-DIMETHYL-2,6-DECA-DIENOIC ACID AS A MAJOR COM-PO-NENT IN HAIRPENCIL SECRETION OF THE MALE MONARCH BUTTERFLY.

J Meinwald A M Chalmers T E Pliske T Eisner

*Tetrahedron Lett* (47):4893-4896 REF

Sep 1968 385 T29

Biochemistry, Danaus plexippus, Insect behavior, Pheromones, Secretion, Sex, Spectrochemistry.

10552-69

## REPORT OF THE ANTI-LOCUST RESEARCH CENTRE 1965.

46P

1965 SB945.L7A53

Acrididae, Cicadidae, Insect control, International cooperation, Reports, Research.

10553-69

## REPORT OF THE ANTI-LOCUST RESEARCH CENTRE FOR 1966.

Great Britain Ministry Of Overseas Development

56P

1966 SB945.6MA53

Acrididae, Cicadidae, Insect control, International cooperation, Reports, Research.

10554-69

## THE SENSORY CELLS OF THE HYPOPHARYNGEAL ORGAN OF BLABERA CRANIIFER BURM. (INSECTA, DICTYOPTERA). STUDY OF THE CILIARY SEGMENT AND THE CON-NECTED STRUCTURES. (FR)

M Moulins

*Acad Sci Compt Rend Ser D Sci Nat* 265(1, 2ND SEMESTER):44-47 REF

03 Jul 1967 505 P21

Blaberus craniifer, Chemoreceptors, Electron microscopy, Insect cytology, Pharynx.

# ENTOMOLOGY

10555-69

**THE OCCURRENCE OF BLOWFLIES (DIPT., CALLIPHORIDAE) IN THE ARCHIPELAGO OF THE LAKE KALLAVESI, CENTRAL FINLAND.**  
P Nuorteva T Rasanen

*Ann Zool Fenn 5(2):188-193 MAP*

1968 410 AN712

Calliphoridae, Climate, Insect populations, Zoogeography.

10556-69

**PARASITIZATION OF IMPORTED CABBAGEWORM AND CABBAGE LOOPER EGGS ON CABBAGE IN SOUTHERN CALIFORNIA, WITH NOTES ON THE COLONIZATION OF TRICHOGRAMMA EVANESCENS.**  
E R Oatman G R Platner P D Greany

*J Econ Entomol 61(3):724-730*

Jun 1968 421 J822

Cabbage, Insect eggs, Insect pests, Parasitic insects, *Pieris rapae*, *Trichogramma evanescens*, *Trichoplusia ni*.

10557-69

**AUTOECOLOGICAL-ZOOGEOGRAPHICAL ANALYSIS OF MOSS MITES (ACARI, ORIBATEI) ON THE BASIS OF FAUNA IN THE POZNAN ENVIRONS. PART I.**  
A Rajski

*Pol Pismo Entomol 37(1):69-166 REF*

15 Aug 1967 421 P76

Insect ecology, Oribatei, Zoogeography. The study describes 67 species. polish summary.

10558-69

**INSECTS ASSOCIATED WITH THE SPONGE SPONGILLA FRAGILIS IN THE SAVANNAH RIVER.**  
S S Roback

*Acad Natur Sci Phila Notulae Natur (412):10P REF*

15 Apr 1968 500 P53NO

Insect ecology, Insect morphology, Insect pests, Sponges.

*Climacea areolis* and *Xenochironomus xenolabis* were found throughout the sponge. *Athripsodes* sp. and *Athripsodes* were found in the sponge. *Rheorthoeladius* sp., *Orthocladius* sp. and *Cricotopus bicinctus* were found in the body of the sponge.

10559-69

**IMMUNOLOGICAL RESPONSE OF MALE COCKROACHES TO INJECTION OF TETRAHYMENA PYRIFORMIS.**  
G R Seaman N L Robert

*Science 161(3848):1359-1361*

27 Sep 1968 470 SCI2

*Blattidae*, Immunity, Injections, Insect biology, *Periplaneta americana*, Proteins, *Tetrahymena pyriformis*.

10560-69

**THE EFFECTS OF PH ON THE LABELLAR SUGAR RECEPTOR OF THE FLESHFLY.**  
A Shiraishi H Morita

*J Gen Physiol 53(4):450-470 REF*

Apr 1969 447.8 J822

Chemoreceptors, Hydrogen-ion concentration, Insect behavior, Insect biochemistry, *Sarcophagidae*, Sucrose, Taste.

The pH inhibition curve is discussed for the labellar sugar receptor of the flesh fly, *Boettcherisca perigrina*. The response to sucrose was independent over a wide range of pH (3.0 to 10.0) but was inhibited fairly sharply on both sides of this range.

10561-69

**DISTRIBUTION OF RICKETTSIA DERMACENTROXENUS SIBIRICUS IN THE ORGANISMS OF TICKS ORNITHODOROS LAHORENSIS NEUMANN, ALVEONASUS CANESTRINI BIR. (ARGASIDAE, IXOIDEA). (RUS)**  
V E Sidorov V N Kryucheknikov

*Med Parazitol Parazitarn Bolezni 37(3, MAY-JUN):309-313*  
1968 448.8 M469

# BIBLIOGRAPHY

E Tutkun

*Bitki Koruma Bulteni 7(3):121-144*

1967 464.8 B542

Insect morphology, Insect nutrition, Nymphs, *Schistocerca gregaria*. English summary.

10562-69

**REARING STORED-PRODUCT INSECTS FOR LABORATORY STUDIES: BEAN AND COWPEA WEEVILS.**

R G Strong G J Partida D N Warner

*J Econ Entomol 61(3):747-751*

Jun 1968 421 J822

Acanthoscelides obtectus, Bruchidae, *Callosobruchus maculatus*, Cowpeas, Experimental insects, Insect rearing, Kidney beans, Stored products.

10563-69

**A SURVEY OF RESISTANCE TO DIELDRIN-GROUP IN THE GERMAN COCKROACH, BLATTELLA GERMANICA, COLLECTED FROM KAWASAKI, JAPAN. (JA)**

T Suzuki H Matsunaga M Shimamura

*Jap J Sanit Zool 19(3):207-209*

20 Oct 1968 QL99.E3

Blattella germanica, Chlorinated hydrocarbons, Diazinon, Dieldrin, Insecticide resistant insects, Organophosphorus compounds, Surveys. English summary.

10564-69

**CONTROL OF CERTAIN COTTON PESTS WITH UNION CARBIDE UC21149.**

H M Taft A R Hopkins

*J Econ Entomol 61(3):736-739*

Jun 1968 421 J822

Aldicarb, *Anthonomus grandis*, *Aphis gossypii*, Carbamates, Chemical control (insects), Cotton, *Heliothis virescens*, *Heliothis zea*, Insect pests, Insecticide application, *Tetranychus urticae*.

10565-69

**STRUCTURE OF CAPITASTERONE, A NOVEL C29 INSECT-MOULTING SUBSTANCE FROM CYATHULA CAPITATA.**

T Takemoto K Nomoto Y Hikino H Hikino

*Tetrahedron Lett (47):4929-4932*

Sep 1968 385 T29

Biochemistry, Carbon isotopes, *Cyathula capitata*, Insect hormones, Lactones, Molting (insects), Spectrochemistry.

10566-69

**BANDS ON PEACH TREES AS SHELTERS FOR PREDATORS OF THE GREEN PEACH APHID.**

G Tamaki J E Halfhill

*J Econ Entomol 61(3):707-711*

Jun 1968 421 J822

Arthropoda, Beneficial insects, Humidity, *Myzus persicae*, Peaches, Predaceous insects, Temperature.

10567-69

**DIFFERENCE OF LARVAL PERIOD OBSERVED BETWEEN MALES AND FEMALES OF CULEX PIPiens PALLENS. (JA)**

I Tanaka

*Jap J Sanit Zool 19(3):194-196*

20 Oct 1968 QL99.E3

*Culex pipiens pallens*, Insect morphology, Larvae, Time. English summary.

10568-69

**BIOLOGY OF MYELOIS CERATONIAE ZELLER AND RESEARCH ON THE CONTROL METHODS. (TU)**

C Tokmakoglu O Z Soylu H Deve Cioglu

*Bitki Koruma Bulteni 7(3):93-106*

1967 464.8 B542

Chemical control (insects), Citrus, Cultural control (insects), Fenthion, Insect biology, *Myelois ceratoniae*, Organophosphorus compounds, Trichlorfon. English summary.

10569-69

**THE NUTRITION OF DESERT LOCUST (SCHISTOCERCA GREGARIA FORKS.) NYMPHS AND DEVELOPMENTAL DIFFERENCES OF THE NYMPHS CAUSED BY NUTRITION. (TU)**

*Med Parazitol Parazitarn Bolezni 37(3, MAY-JUN):309-313*

1968 448.8 M469

Genetics 58(2):249-258 REF

# GENETICS

10570-69

**GENETIC ASPECTS OF PTERIDINES IN MOSQUITOES.**

S C Bhalla

*Genetics 58(2):249-258 REF*

Feb 1968 442.8 G28  
Aedes acgypti, Aedes mascarensis, Amino-4-hydroxypteridine, 2-, Chromatography, Culicidae, Fluorescence, Insect genetics, Mutation, Pteridine, Pteridine compounds.

10578-69  
**NON-RANDOM LOCALIZATION OF LETHALS IN DROSOPHILA.**  
R Falk E Lifschitz  
*Mutation Res* 5(3, JUN-JUL):411-416 REF  
1968 443.8 M98  
Drosophila melanogaster, Insect genetics, Radiation.

10579-69  
**DDT-DEHYDROCHLORINASE ACTIVITY IN HOUSE FLY STRAINS RESISTANT TO VARIOUS GROUPS OF INSECTICIDES.**  
M A Q Khan L C Terriere  
*J Econ Entomol* 61(3):732-736 REF  
Jun 1968 421 J822  
Carbamates, Chemical control (insects), Chlorinated hydrocarbons, Chromosomes, DDT, DDT-DEHYDROCHLORINASE, Enzymes, Genes, Insect biochemistry, Insect genetics, Insect metabolism, Insecticide resistant insects, Insecticides, Isopropyl-3-methylpyrazol-5-yl dimethylcarbamate, 1-, Metabolites, Microsomes, Musca domestica, Naphthalene, Organophosphorus compounds.

10580-69  
**ON THE LOCUS OF 'WHITE LETHAL EGG' GENE IN THE SILKWORM. (JA Y Ohtsuki**  
*Belg Biol Inst Posebna Izdanja* 37(2):95-101 REF  
Apr 1968 425.9 SE6  
Bombyx mori, Genes, Insect eggs, Insect genetics, Insect mutation, Lethal factor. English summary.

10581-69  
**POSSIBLE PLEIOTROPISM OF A GENE CONFERRING RESISTANCE TO DDT, DDT ANALOGS, AND PYRETHRINS IN THE HOUSE FLY AND CULEX TARSALIS.**  
F W Plapp R F Hoyer  
*J Econ Entomol* 61(3):761-765 REF  
Jun 1968 421 J822  
Chlorinated hydrocarbons, Chromosomes, Culex tarsalis, DDT, Genes, Insect genetics, Insect physiology, Insecticide resistant insects, Musca domestica, Pyrethrum.

10582-69  
**GENETIC VARIABILITY IN THE GERMAN COCKROACH. II. A DESCRIPTION OF NEW MUTANTS AND LINKAGE TESTS.**  
M H Ross D G Cochran  
*J Hered* 58(6, NOV-DEC):274-278  
Dec 1967 442.8 AM3  
Blattella germanica, Insect genetics, Insect mutation.

**MEDICAL ENTOMOLOGY**

10583-69  
**EXPERIENCE OF EXTERMINATION OF PASTURE TICKS IN A NATURAL FOCUS OF TULAREMIA ON THE ISLAND OF BIRYUCHY. (RUS)**  
V S Bessalov V S Vasilchenko N S Zavodov N F Kompanstev V A Panasovskiy F A Pushnitsa L A Termenko M A Timofeev  
*Med Parazitol Parazitarn Bolezni* 37(3, MAY-JUN):288-291  
1968 448.8 M469  
Insect control, Insect vectors, Ixodidae, Tularemia.

10584-69  
**EXPERIMENTS WITH FEEDING SANDFLIES (PHLEBOTOMINAE) ON GREAT GERBILS (RHOMBOMYS OPIMUS LICHT) UNDER CONDITIONS APPROACHING NATURAL. (RUS)**  
L N Eliseev M V Strelkova  
*Med Parazitol Parazitarn Bolezni* 37(3, MAY-JUN):324-328

1968 448.8 M469  
Experimental insects, Gerbils, Insect rearing, Insect vectors, Leishmaniasis, Parasitic insects, Phlebotomus, Psychodidae. English summary

10585-69  
**ON RESULTS OF CONTROL OF A TICK VECTOR OF SPIROCHAETOSIS IN VILLAGE FOCI OF THE CENTRAL ASIAN REPUBLICS. (RUS)**  
M V Pospelova-Shtron  
*Med Parazitol Parazitarn Bolezni* 37(3, MAY-JUN):297-302  
1967 448.8 M469  
Insect control, Insect vectors, Ixodidae, Population, Spirochetosis, Zoogeography. English summary.

**CROP PROTECTION**

10586-69  
**PLANT SCIENCES AND CROP HUSBANDRY, RESEARCH REPORT, 1967.**  
*Dublin Foras Taluntais Plant Sci Crop Husb* 148P REF  
1967 103 D852  
Crops, Grain, Insect pests, Pesticides, Plant biochemistry, Plant breeding, Plant diseases, Plant nematodes, Plant protection.

10587-69  
**USE OF NARCOTIC BAITS.**  
*Dublin Foras Taluntais Plant Sci Crop Husb* 22-23  
1967 103 D852  
Baits, Bird pests, Crop losses, Narcotics.

10588-69  
**RESEARCH ACTIVITIES 1958-1961.**  
Anonymous  
*Amsterdam Inst Trop Mededel* (56):74P REF  
1968 503 AM82  
Agricultural research, Crops, Insect pests, Plant diseases, Plant protection, Research, Soil analysis, Tropical plants. The article includes insect pests and diseases of crops.

10589-69  
**FACTORS AFFECTING TRACE AND MINOR ELEMENTS IN HILL SHEEP PASTURES.**  
F C Archer  
*Vet Rec* 83(24):607  
14 Dec 1968 41.8 V641  
Cobalt, Copper, Fertilizers, Liming, Magnesium, Manganese, Micronutrients, Molybdenum, Pastures, Salts, Sheep, Soils, Sulfates. Summary only: British Veterinary Assoc. Congress, Sept. 16-20, 1968.

10590-69  
**EMENDATION OF THE GENUS STREPTOVERMICILLIUM BALDACCI (1958) AND REVISION OF SOME SPECIES.**  
E Baldacci G Farina R Locci  
*Milan Univ Inst Patol Veg Pubbl Raccolta* (324):153-171 REF  
1967 464.9 M582  
Fungi, Moniliiales, Plant morphology, Plant taxonomy. Italian summary.  
Reprint from: *Giornale di Microbiologia* 14:153-171 1966. The author examined 14 species to provide an emendation of the diagnosis of Streptovermicillium.

10591-69  
**INCUBATION CALENDAR FOR PERONOSPORA AND PEST CONTROL GUIDE FOR GRAPE CULTURE. (IT)**  
E Baldacci  
*Milan Univ Inst Patol Veg Pubbl Raccolta* (33):39P  
1967 464.9 M582  
Chemical control (insects), Chemical control (weeds), Fungicides, Fungus diseases (plants), Grape vineyards, Insect pests, Peronospora, Pest control, Virus diseases (plants).

10592-69  
**THE USE OF CHLOROPICRIN FOR SOIL DISINFECTION. (FR)**  
J Bourdin  
*Phytoma* 20(198):19-26 REF  
May 1968 464.8 P563  
Accident prevention, Chloropicrin, Equipment, Fumigants, Pesticide application, Pesticides, Regulations, Soil sterilization.

10593-69  
**GIBBERELLIN INDUCED HETEROSTYLICITY IN THE TOMATO AND ITS IMPLICATIONS FOR HYBRID SEED PRODUCTION.**  
M J Bukovac S Honma  
*Amer Soc Horticult Sci Proc* 91:514-520 REF  
1967 81 SO12  
Gibberellins, Greenhouse culture, Heterostyly, Plant breeding, Plant physiology, Pollination, Seeds, Tomatoes.

10594-69  
**TRAPPING OF BULLFINCHES.**  
J F Eades T O'Calligan N D O'Kennedy  
*Dublin Foras Taluntais Plant Sci Crop Husb* 23,24  
1967 103 D852  
Bird pests, Plant protection, Thiocarbamates, Thiram.

10595-69  
**BIRD DAMAGE TO BLUEBERRIES.**  
J F Eades J G D Lamb  
*Dublin Foras Taluntais Plant Sci Crop Husb* 23-24  
1967 103 D852  
Bird pests, Blueberries, Crop yields, Plant protection.

10596-69  
**PREVENTION OF WOOD-PIGEON DAMAGE.**  
J F Eades R F Murphy  
*Dublin Foras Taluntais Plant Sci Crop Husb* 22  
1967 103 D852  
Animal protective devices, Bird pests, Crop losses, Peas, Pigeons.

10597-69  
**TRAPPING OF CORVIDS.**  
J F Eades  
*Dublin Foras Taluntais Plant Sci Crop Husb* 21-22  
1967 103 D852  
Bird control, Bird pests, Crows, Traps, Wildlife.

10598-69  
**SPECIALIST ADVISORY AND DIAGNOSTIC SERVICE.**  
A M Fcency J J Duggan  
*Dublin Foras Taluntais Plant Sci Crop Husb* 122-123  
1967 103 D852  
Entomology, Extension work, Insect ecology, Plant injuries, Plant pests.

10599-69  
**GENERAL BREEDING, BREEDING FOR RESISTANCE TO BLIGHT AND POTATO ROOT EELWORM.**  
H W Kehoe  
*Dublin Foras Taluntais Plant Sci Crop Husb* 59  
1967 103 D852  
Blight, Crop yields, Ditylenchus destructor, Plant breeding, Plant disease resistance, Plant nematode resistance, Potatoes, Virus diseases (plants).

10600-69  
**STUDIES ON THE PYCNIDIAL FORMATION BY MACROPHOMINA PHASEOLI (MAUBL.) ASHBY SIZE OF PYCNIDIA, OSTIOLE AND PYCNIDIOSPORES AND ITS SIGNIFICANCE.**  
N B Kulkarni B C Patil  
*Mycopathol Mycol Appl* 36(314):311-321 REF  
1968 450 M994  
Fungi, Macrophomina phaseoli, Plant morphology, Pycnidia.

## CROP PROTECTION

10601-69

10601-69  
MITORUBRINIC ACID AND RELATED COMPOUNDS FROM A STRAIN OF *PENICILLIUM FUNICULOSUM* THOM.

R Locei L Merlini G Nasini J Rogers Locei  
*Milan Univ Inst Patol Veg Pubbl Raccolta*

(328):93-102 REF

1967 464.9 M582

Acids, Culture media, Fungi, Isolates, *Penicillium funiculosum*. Italian summary.

Reprint from: *Giornale di Microbiologia* 15:93-102 1967.

10602-69

WYOMING RANGE MANAGEMENT.

M May A A Beetle R O Asplund

*Wyoming Range Management* (268/270, APR-JUN):44P REF

1969 60.19 W99

Bibliography, Range management, Vegetation.

10603-69

PLANT BREEDING.

P S T Miric

*Kenya Dep Agr Ann Rep* 1:42-45

1966 24 AF8A

Agronomy, Corn, Plant breeding, Plant diseases, Plant genetics, Seeds, Wheat.

10604-69

NINETY-SEVENTH ANNUAL REPORT OF THE SECRETARY OF THE STATE HORTICULTURAL SOCIETY OF MICHIGAN.

A E Mitchell

*Mich State Hort Soc Annu Rep* 167P

1968 81 M58

Horticulture, Reports, Societies.

10605-69

ANNUAL REPORT 1966-67.

125P REF

1967 451 C142

Crop varieties, Cytogenetics, Equipment, Grain, Plant biochemistry, Plant breeding, Plant disease resistance, Plant diseases, Surveys.

10606-69

BEHAVIOUR OF *ALTERNARIA POONENSIS* INCITING BLIGHT OF CORIANDER IN ARTIFICIAL CULTURE.

T Raghunath

*Myopathol Mycol Appl* 36(314):347-352 REF

1968 450 M994

*Alternaria poonensis*, Blight, *Coriandrum sativum*, Culture media, Light, Plant physiology.

10607-69

RUBBER RESEARCH INSTITUTE OF MALAYA. ANNUAL REPORT 1966.

112P.

1966 78.9 R824A

Agricultural statistics, Botany, Chemistry, Economics, Plant diseases, Reports, Research, Rubber, Soils. Includes insect pests and diseases.

10608-69

PLANT PROTECTION SERVICE IN JORDAN. (GE)

G Schumacher

*Gesunde Pflanzen* 20(9):177-179

Sep 1968 464.8 G33

Legislation, Plant protection, Plant quarantine.

10609-69

ANNUAL REPORT OF THE INDIAN INSTITUTE OF SUGARCANE RESEARCH, LUCKNOW, 1964-65. (MYCOLOGY, BY K. SINGH; RESEARCH PROJECT ON INVESTIGATION AND CONTROL OF VIRUS DISEASES OF SUGARCANE, BY K. SINGH; ENTOMOLOGY, BY A. N. KALRA).

K Singh A N Kalra

210P

1965 65.9 IN225

Agronomy, Entomology, Mycology, Plant physiology, Reports, Soil chemistry, Statistical analysis, Sugarcane, Virus diseases (plants).

## BIBLIOGRAPHY

10610-69

PLANT PROTECTION. BULLETIN OF THE PLANT DISEASE CONTROL STATION OF GENEVA. JULY. (FR)

*Rev Hort Suisse* 41(7):178-180

Jul 1968 80 R3212

Chemical control (plant diseases), Crops, Fruit culture, Fungus diseases (plants), Horticulture, Insect pests, Ornamental plants, Plant disease control.

10611-69

TROPICAL PESTICIDES RESEARCH INSTITUTE, ANNUAL REPORT, 1966.

30 P.

1966 79.9 AR8

Chemical control (insects), Coffee, Crops, Culicidae, Forests, Fungicides, Fungus diseases (plants), Glossina, Herbicides, Insecticides, Molluscacids, Plant pest control, Snails, Tree diseases.

## DISEASES

10612-69

A STEMPHYLIUM LEAF SPOT OF Vicia faba IN THE UNITED ARAB REPUBLIC.

Y A Abdou M M Fahim

*Plant Dis Rep* 53(2):157-159

Feb 1969 1.9 P69P

Broadbeans, Diagnosis, Epidemiology, Fungus diseases (plants), Leafspot, *Stemphylium botryosum*.

10613-69

COMPARISON OF FUNGICIDES FOR POTATO BLIGHT.

*Dublin Foras Taluntais Plant Sci Crop Hush* 13-14

1967 103 D852

Blight, Defoliation, Fungicides, Potatoes, Spraying. 8 fungicides and mixtures were tested.

10614-69

LONGEVITY AND ROLE OF VERTICILLIUM-AND FUSARIUM-DISEASED PLANT MATERIALS IN INFECTION OF NEW COTTON CROPS.

M M Al-Shukri

*Plant Dis Rep* 53(2):126-127

Feb 1969 1.9 P69P

Cotton, Fungus diseases (plants), Fusarium, *Fusarium oxysporum vasinfectum*, Longevity, Plant disease transmission, *Verticillium albo-atrum*, *Verticillium dahliae*.

10615-69

PARTICLE SHAPE OF SOUTHERN SANNHEMP MOSAIC VIRUS.

G P S Anand

*Cur Sci* 37(24):706

20 Dec 1968 475 SCI23

Electron microscopy, Microorganisms, Morphology, Mosaic, *Sunn erotalaria*, Virus diseases (plants).

10616-69

FORMATION OF TOBACCO MOSAIC VIRUS IN AN ANIMAL CELL CULTURE.

J G Atherton

*Arch Gesamte Virusforsch* 24(4):406-418 REF

Sep 1968 448.3 AR23

Monkeys, Mosaic, Tissue culture, Tobacco, Virus diseases (plants).

10617-69

A TENTATIVE ARRANGEMENT OF THE GENERA IN ACTINOMYCETALES.

E Baldacci R Locei

*Milan Univ Inst Patol Veg Pubbl Raccolta*

(323):131-139 REF

1967 464.9 M582

Actinomycetales, Bacterial diseases (plants), Morphology, Taxonomy. Italian summary.

Reprint from: *Giornale di Microbiologia* 14:131-139 1966.

10618-69

STREPTOMYCES AVELLANEUS AND STREPTOMYCES LIBANI: TWO NEW SPECIES

CHARACTERIZED BY A HAZEL-NUT BROWN (AVELLANEUS) AERIAL MYCELIUM.

E Baldacci A Grein

*Milan Univ Inst Patol Veg Pubbl Raccolta*

(329):185-198 REF

1967 464.9 M582

Bacterial diseases (plants), Culture media, Electron microscopy, Morphology, Streptomyces. Italian summary.

Reprint from: *Giornale di Microbiologia* 14:185-198 1966.

10619-69

SUMMER DEATH--A NEW DISEASE OF BEANS.

B Ballantyne

*Agr Gaz New S Wales* 79(8):486-489 REF

Aug 1968 23 N472

Diagnosis, Host indexing (plants), Insect vectors, Kidney beans, Plant disease transmission, Virus diseases (plants).

The distribution, symptoms, host range, the apparent etiological agent and mode of transmission of a newly recognized disease of kidney beans is presented.

10620-69

DEGREE OF RESISTANCE OF SOME WATERMELON (CITRULLUS VULGARIS SCHRAD.) VARIETIES TO THE FUSARIUM WILT (FUSARIUM OXYSPORUM (SCHLECHT.) F. NIVEUM (E. F. SM) TSNYDER HANSEN. (POR)

B P Bastos Cruz A P da Silveira N T de Mendonca

*Sao Paulo Inst Biol Arq* 35(2, APR-JUN):67-76

REF

Jun 1968 442.9 SA6

Fungus diseases (plants), *Fusarium oxysporum*, *Fusarium* wilt, Plant disease resistance, Watermelons. English abstract

10621-69

DISSEMINATION OF WATERBORNE ERWINIA AMYLOVORA BY WIND IN NURSERY PLANTINGS.

R J Bauskc

*Amer Soc Horticult Sci Proc* 91:795-801 REF

1967 81 SO12

Bacterial diseases (plants), Epiphytotic, *Erwinia amylovora*, Fire blight, Nurseries, Pears, Plant disease transmission, Plant injuries, Rainfall, Wind.

10622-69

A NEW RACE OF STRIPE RUST PATHOGENIC ON THE WHEAT VARIETY MORO, CI 13740.

R G Beaver R L Powelson

*Plant Dis Rep* 53(2):91-93

Feb 1969 1.9 P69P

Breeding, Crop varieties, Fungus diseases (plants), Plant disease resistance, *Puccinia striiformis*, Stripe rust, Temperature, Wheat.

10623-69

FLORAL INFECTION BY ASCOCHYTA CAULICOLA (GRAY STEM CANKER) AND VARIETAL REACTION OF SWEET CLOVER.

B Berkenkamp

*Plant Dis Rep* 53(5):348-349

May 1969 1.9 P69P

Ascochyta caulicola, Clover, Crop losses, Crop varieties, Fungus diseases (plants).

10624-69

FIRE BLIGHT RESEARCH AND CONTROL MEASURES IN THE UNITED STATES.

H J Brooks

*Mich State Hort Soc Annu Rep* 114-118 REF

1968 81 M58

Apples, Bacterial diseases (plants), Fertilizers, Fire blight, Orchards, Plant disease control, Pruning, Spraying.

10625-69

TESTS FOR THE CONTROL OF MILDEW OF THE TOMATO. (IT)

B Casarini

*Giornate Fitopatol* 157-161

26 Mar 1967 SB599.G5  
Chemical control (plant diseases), Climate, Fungus diseases (plants), Mildew, Phytophthora infestans, Statistical analysis, Tetrachloroethyl)thio)-4-cyclohexene-1,2-dicarboximide, cist. Other, less effective fungicides were also tested.

**10626-69**  
**RESULTS OF THREE YEARS OF THE CONTROL OF MARSSONINA BRUNNEA IN POPLARS. (IT)**  
E Castellani G P Cellerino  
*Giornate Fitopatol* 213-219  
26 Mar 1967 SB599.G5  
Chemical control (plant diseases), Copper oxychloride, Drepanopeziza punctiformis, Fungus diseases (plants), Maneb, Maneb (zinc ion), Populus, Tetrachloroethyl)thio)-4-cyclohexene-1,2-dicarboximide, cist, Time.

**10627-69**  
**MOLDY CARPELS IN DELICIOUS APPLES ON THE GREATER NEW YORK MARKET.**  
M J Ceponis J Kaufman J E Butterfield  
*Plant Dis Rep* 53(2):136-138  
Feb 1969 1.9 P69P  
Alternaria tenuis, Apples, Crop varieties, Fungus diseases (plants), Fusarium, Leptosphaeria coniothyrium, Molds, Rhizopus stolonifer.

**10628-69**  
**COMPARATIVE TESTS BETWEEN AND VARIOUS TIME PERIODS OF TREATMENT IN THE CONTROL OF GRAY MOLD OF STRAWBERRIES. (IT)**  
A Cesari F Laffi  
*Giornate Fitopatol* 231-234  
26 Mar 1967 SB599.G5  
Botrytis cinerea, Captan, Chemical control (plant diseases), Chlorinated hydrocarbons, Fungicide application, Fungus diseases (plants), Gray mold, Strawberries, Tetrachloroethyl)thio)-4-cyclohexene-1,2-dicarboximide, cist, Thiram, Time, Zineb.

**10629-69**  
**SOME REMARKS ON TESTS AND SEVERAL APPLICATIONS DURING THE YEAR, CONDUCTED WITH A NEW PREPARATION AGAINST CRYPTOGAMIA, ON NUMEROUS CULTURES. (IT)**  
M Ciampolini  
*Giornate Fitopatol* 297-301  
26 Mar 1967 SB599.G5  
Chemical control (plant diseases), Crops, Cryptogamia, Fungicide application, Fungus diseases (plants), Phytotoxicity, Thiocarbamates, Zinc salts.

**10630-69**  
**A SECOND THREE YEAR PERIOD OF THE FIGHT AGAINST BOTRYTIS IN THE VINEYARDS OF FRIULI. (IT)**  
A Cosolo Giussani P L Carniel  
*Giornate Fitopatol* 225-229  
26 Mar 1967 SB599.G5  
Botrytis, Captan, Chemical control (plant diseases), Chlorinated hydrocarbons, Folpet, Fungus diseases (plants), Grape vineyards, Potassium sulfate, Tetrachloroethyl)thio)-4-cyclohexene-1,2-dicarboximide, cist, Zineb.

**10631-69**  
**BASIC TESTS CONCERNING THE CONTROL OF MARSSONINA BRUNNEA IN POPLARS. (IT)**  
A Cosolo Giussani  
*Giornate Fitopatol* 221-224  
26 Mar 1967 SB599.G5  
Chemical control (plant diseases), Drepanopeziza punctiformis, Fungus diseases (plants), Maneb (zinc ion), Populus, Thiocarbamates.

**10632-69**  
**APPLICATION OF SOIL MOISTURE PRINCIPLES TO THE STUDY OF PLANT DISEASE.**  
A B Couch L H Purdy D W Henderson  
*Va Polytech Inst Dep Entomol Res Div Bull* (4):23P REF  
Jan 1967 QL461.V5  
Plant diseases, Plant physiology, Roots, Soil moisture.

**10633-69**  
**THE PRESENCE OF MYCOPLASMA-LIKE PARTICLES IN THE PHLOEM OF PLANTS INFECTED WITH THREE EUROPEAN YELLOW DISEASES: TOMATO STOLBUR, GLADIOLA ASTER YELLOW, AND CLOVER PHYLLODY. CYTOLOGICAL AND ULTRASTRUCTURAL STUDIES. PRELIMINARY REMARKS ON CHEMICAL CONTROL. (FR)**  
M T Cousin P L Maillet J P Gourret C Grison T Staron  
*Paris Acad Agr France Compt Rend Hebd Seances* 54(1):887-893 REF  
16 Oct 1968 14 P215BC  
Aster yellows, Chemical control (plant diseases), Clover, Erythromycin, Gladiolus, Phyllody, Plant disease transmission, Plant histology, Stolbur, Tetracycline, Tomatoes, Tylosin, Virus diseases (plants).

**10634-69**  
**RESISTANCE OF BARLEY VARIETIES TO CERCOSPORELLA HERPOTRICHOIDES.**  
P C Cunningham  
*Dublin Foras Taluntais Plant Sci Crop Husb* 93-1967 103 D852  
Barley, Cercospora herpotrichoides, Crop varieties, Fungus diseases (plants), Plant disease resistance.

**10635-69**  
**HOST SPECIFICITY OF ISOLATES OF CERCOSPORELLA HERPOTRICHOIDES.**  
P C Cunningham  
*Dublin Foras Taluntais Plant Sci Crop Husb* 92-93 1967 103 D852  
Agropyron repens, Barley, Cercospora herpotrichoides, Crop varieties, Fungus diseases (plants), Host indexing (plants), Isolates, Wheat.

**10636-69**  
**EYESPOT AND TAKE-ALL DISEASE TRENDS IN CONTINUOUS MALTING BARLEY GROWING TRIALS.**  
P C Cunningham  
*Dublin Foras Taluntais Plant Sci Crop Husb* 93-94 1967 103 D852  
Barley, Eyespot, Fungus diseases (plants), Nitrogen, Take-all.

**10637-69**  
**RELATIONSHIP OF TAKE-ALL INFECTION LEVELS AND REDUCTION OF WHEAT AND BARLEY GRAIN YIELDS.**  
P C Cunningham  
94  
1967  
Barley, Crop yields, Fungus diseases (plants), Inoculum, Take-all, Wheat.

**10638-69**  
**VARIOUS FORMULATIONS OF PRODUCTS FOR THE CONTROL OF LEAF SPOT ON OLIVES. (IT)**  
M D'Armini  
*Giornate Fitopatol* 209-211  
26 Mar 1967 SB599.G5  
Bordeaux mixture, Chemical control (plant diseases), Cycloconium oleaginum, Formulations, Fungus diseases (plants), Leaf spot, Olives, Thiocarbamates, Zineb, Ziram.

**10639-69**  
**POLYMYXA INFECTION OF BERMUDA GRASS.**  
J L Dale C L Murdoch  
*Plant Dis Rep* 53(2):130-131  
Feb 1969 1.9 P69P  
Cynodon dactylon, Cynodon transvaalensis, Fungus diseases (plants), Grasses, Olpidium, Polymyxa, Polymyxa graminis.

**10640-69**  
**POTATO SPINDLE TUBER VIRUS: A PLANT VIRUS WITH PROPERTIES OF A FREE NUCLEIC ACID.**

**T O Diener W B Raymer**  
*Science* 158(3799):378-381 REF  
20 Oct 1967 470 SCI2  
Nucleic acids, Potatoes, Spindle tuber, Virus diseases (plants).

**10641-69**  
**COMPARISON BETWEEN PRODUCTS EFFECTIVE AGAINST BOTH POWDERY MILDEW AND OIDIUM. (IT)**  
S Foschi G Rapparini  
*Giornate Fitopatol* 195-207 REF  
26 Mar 1967 SB599.G5  
Chemical control (plant diseases), Dodine, Erysiphaceae, Fungus diseases (plants), Maneb, Maneb (zinc ion), Oidium, Plant disease resistance, Powdery mildew, Thiocarbamates, Thiram. Other, less effective fungicides were tested.

**10642-69**  
**SOME ASPECTS OF THE CHEMICAL CONTROL OF TOBACCO PERONOSPORA. (IT)**  
S Foschi G Govi G Rapparini  
*Giornate Fitopatol* 153-156 REF  
26 Mar 1967 SB599.G5  
Chemical control (plant diseases), Fungus diseases (plants), Maneb, Nabam, Peronospora tabacina, Thiocarbamates, Tobacco, Zineb, Ziram.

**10643-69**  
**RECOGNIZING TURFGRASS DISEASES.**  
S Frederiksen J L Weihing  
*Calif Turfgrass Cult* 18(3):18-22  
Jul 1968 60.18 S08  
Blight, Diagnosis, Fungus diseases (plants), Rust, Turf. Common diseases of turf are discussed including their symptoms, cause, and control (both chemical and cultural).

**10644-69**  
**TIME OF CHEMICAL HAULM DESTRUCTION.**  
C Frost  
*Dublin Foras Taluntais Plant Sci Crop Husb* 14-15 1967 103 D852  
Blight, Defoliation, Fungicides, Fungus diseases (plants), Potatoes, Spraying, Stems.

**10645-69**  
**COMPARATIVE PATHOGENICITY OF CEPHALOSPORIUM ACREMONIUM CORDS, AND FUSARIUM MONILIFORME SHELDON, (EMEND SNYDER AND HANSEN (GIBBERELLA FUJIKUROI) (SAW.)WR.) ON MAIZE.**  
H M L Gallegos  
*Diss Abstr Sect B* 29(3):900B  
Sep 1968 Z5055.U49D53  
Cephalosporium acremonium, Corn, Fungus diseases (plants), Fusarium moniliforme, Greenhouse culture, Photoperiodism, Roots, Temperature.

**10646-69**  
**SOME OBSERVATIONS ON THE SHAPE AND LOCALIZATION OF DIFFERENT VIRUSES IN EXPERIMENTALLY INFECTED PLANTS, AND ON THE FINE STRUCTURE OF THE HOST CELLS. III: TURNIP YELLOW MOSAIC VIRUS IN BRASSICA CHINENSIS L.**  
F M Gerola M Bassi G Giussani  
*Milan Univ Inst Patol Veg Pubbl Raccolta* (320):457-479 REF  
1967 464.9 M582  
Chinese cabbage, Plant extracts, Turnips, Virology, Virus diseases (plants), Yellow mosaic. Italian summary.  
Reprint from: *Caryologia* 19(4):457-479 1966.

**10647-69**  
**TESTS OF THE CONTROL OF POTATO MILDEW IN THE TRENTO REGION. (IT)**  
O Gosen B Caumo  
*Giornate Fitopatol* 163-172  
26 Mar 1967 SB599.G5  
Chemical control (plant diseases), Climate, Fungus diseases (plants), Late blight, Mildew, Peronosporales, Potatoes, Tables (data), Testing, Thiocarbamates, Time, Zineb. Other, less effective fungicides were also tested.

## CROP PROTECTION

10648-69

SUSCEPTIBILITY OF STRAWBERRY VARIETIES TO RED STELE DISEASE.  
C O Gourley D L Craig  
*Can Plant Dis Surv* 48(3):93-94

Sep 1968 464.9 C16S  
Crop varieties, Fungus diseases (plants), *Phytophthora fragariae*, Red stele, Strawberries.

10649-69

FUSARIUM WILT OF COFFEE IN INDIA.

T S Govindarajan S Subramanian  
*Indian Coffee Manthly Bull* 32(9):270-271 REF  
Sep 1968 68.29 IN23M  
Coffee, *Erythrina lithosperma*, Fungus diseases (plants), *Fusarium javanicum*.

10650-69

PRELIMINARY NOTE CONCERNING TESTS IN PROGRESS ON THE CONTROL OF COLLAR ROT OF LETTUCE. (IT)

A Graniti M Elia  
*Giorante Fitopatal* 251-253  
26 Mar 1967 SB599.G5  
Botrytis cinerea, Chemical control (plant diseases), Collar rot, Dichloro-4-nitroaniline, 2,6-, Fungus diseases (plants), Lettuce, *Pentachloronitrobenzene*, *Sclerotinia minor*, *Sclerotinia sclerotiorum*, Sodium N-methyl-dithiocarbamate.

10651-69

CONTROL OF RUST IN SPEARMINT ESTABLISHED WITH TRANSPLANTS.

R J Green  
*Plant Dis Rep* 53(5):376-377  
May 1969 1.9 P69P  
Chemical control (plant diseases), Chlorinated hydrocarbons, Dichloro, Fungus diseases (plants), *Mentha spicata*, *Puccinia menthae*, Rust, Transplanting.

10652-69

XANTHOMONAS TRANSLUCENS ON WHEAT IN MANITOBA IN 1968.

W A F Hagborg  
*Can Plant Dis Surv* 48(3):112  
Sep 1968 464.9 C16S  
Bacterial diseases (plants), Crop losses, Wheat, *Xanthomonas translucens*.

10653-69

SECOND YEAR TRIALS OF PERONOSPORA CONTROL ON ONIONS. (PERONOSPORA SCHLEIDENI UNGER). (FR)

M Haltebourg  
*Awamia* (21):53-62  
Oct 1968 24 AW1  
Blight, Chemical control (plant diseases), Copper, Fungicides, Fungus diseases (plants), Irrigation, Manch, Onions, *Peronospora*, *Peronospora destructor*, Pesticide application, Plant protection, Polyethylene thiuram sulfides, Precipitation. English, Spanish and Arabic summaries.

10654-69

RUSSET CRACK--A MENACE TO THE SWEET-POTATO INDUSTRY. III. ROLE OF FUNGI IN THE ROOT-LESION PHASE OF RUSSET CRACK.

E M Hildebrand  
*Plant Dis Rep* 53(2):103-107  
Feb 1969 1.9 P69P  
Cephalosporium, Fungus diseases (plants), *Fusarium*, *Rhizoctonia*, Roots, Russet crack, Soil fungi, Sweetpotatoes, Temperature.

10655-69

SARIUM FLOWER AND BUD ROT OF CHRYSANTHEMUM FOUND IN LOUISIANA.

G E Holcomb R E Motsinger  
*Plant Dis Rep* 53(5):356  
May 1969 1.9 P69P  
Bud rot, *Chrysanthemum*, Fungus diseases (plants), *Fusarium*.

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10656-69

THE CONTROL OF BLACK ROT CANKERS ON APPLE TREES IN NEW HAMPSHIRE.

J Holmes A E Rich  
*Plant Dis Rep* 53(4):315-318 REF  
Apr 1969 1.9 P69P  
Apples, Black rot, Chemical control (plant diseases), Fungicides, Fungus diseases (plants), Phenylmercuric acetate, *Phylosphaera obtusa*. Other less effective fungicides were tested.

10657-69

FROGSEYE LEAFSPOT AND APPLE BLACK ROT CONTROL BY FUNGICIDE SPRAY TREATMENT IN NEW HAMPSHIRE.

J Holmes A E Rich  
*Plant Dis Rep* 53(5):372-375 REF  
May 1969 1.9 P69P

Apples, Black rot, Chemical control (plant diseases), Frogcyc, Fungicides, Fungus diseases (plants), Leaf spot, *Phylosphaera obtusa*, Spraying.

10658-69

THE EFFECTS OF SOIL MANAGEMENT AND FUNGICIDES ON THE DEVELOPMENT OF GREY MOULD (BOTRYTIS CINerea) OF STRAWBERRIES.

P T Jenkins  
*Australian J Exp Agr Anim Husb* 8(32):374-376  
Jun 1968 23 AU792

Botrytis cinerea, Captan, Chemical control (plant diseases), Crop yields, Dichloro-4-nitroaniline, 2,6-, Fungicides, Fungus diseases (plants), Gray mold, Mulches, Soil management, Strawberries, Tillage.

10659-69

COMPARISONS BETWEEN GRANNY SMITH APPLES FROM HEALTHY AND GREEN CRINKLE VIRUS INFECTED TREES.

G R Johnstone D Martin  
*Australian J Exp Agr Anim Husb* 8(32):381-384  
Jun 1968 23 AU792

Apples, Crop varieties, Green crinkle, Plant injuries, Plant physiology, Virus diseases (plants).

10660-69

FUNGICIDAL SPRAYS AND THEIR INFLUENCE ON DISEASE, QUALITY, AND BLEMISH IN VALENCIA ORANGES AT MANGROVE MOUNTAIN.

T B Kiely  
*Agr Gaz New S Wales* 79(10):613-620 REF

Oct 1968 23 N472  
Black spot, Bordeaux mixture, Chemical control (plant diseases), Copper oxychloride, Crop yields, Fungicides, Fungus diseases (plants), Melanose, Mineral oil, Oranges, Zincb.

Black spot and melanose of valencia oranges were controlled with fungicide sprays of Bordeaux mixture and copper oxychloride using white oil as a sticker. The sprays were applied at petal fall, six weeks later, and with zincb at thirteen weeks.

10661-69

CONTROL OF BARLEY LOOSE SMUT (USTILAGO NUDA) BY A DERIVATIVE OF 1,4-OXATHIIN IN SOUTH CAROLINA.

G C Kingsland  
*Plant Dis Rep* 53(2):118-120 REF  
Feb 1969 1.9 P69P

Barley, Crop varieties, Dihydro-5-carboxanilido-6-methyl-1,4-oxathiin, 2,3-, Fungicides, Fungus diseases (plants), Loose smut, Oxathiin, 1,4-, Sced treatment, *Ustilago nuda*.

10662-69

ESTABLISHMENT OF A RHIZOSPHERE MICROFLORA ON CARNATIONS AS A MEANS OF PLANT PROTECTION IN STEAMED GREENHOUSE SOILS.

J S Koths H B Gunner  
*Amer Soc Horticult Sci Proc* 91:617-626 REF  
1967 81 SO12

*Dianthus caryophyllus*, Fungus diseases (plants), *Fusarium roseum*, Greenhouse culture, In vitro, Lysis, Plant protection, Rhizosphere, Soil-borne plant diseases, Steam.

10663-69

THE RECURRENCE OF DUTCH ELM DISEASE IN COLORADO.

J G Laut N Oshima L E Dickens  
*Plant Dis Rep* 53(4):253  
Apr 1969 1.9 P69P  
Ceratocystis ulmi, Dieback, Epidemiology, Fungus diseases (plants), Insect vectors, *Scolytus multistriatus*, *Ulmus*.

10664-69

MYCOLOGY.

Q MacGarvic  
*Dublin Foras Taluntais Plant Sci Crop Husb* 95-98  
1967 103 D852  
Feed, Molds, Mycology, Soil fungi, Storage diseases, Stored products.

10665-69

BREEDING FOR RESISTANCE TO DOWNTY MILDEW.

J B MacLachlan  
*Dublin Foras Taluntais Plant Sci Crop Husb* 82  
1967 103 D852  
Downy mildew, Fungus diseases (plants), Plant breeding, Plant disease resistance.

10666-69

PREVENTION OF DAMAGE FROM EYESPOT.

S H Manning  
*New Zealand Wheat Rev* (10):70-75  
1967 59.8 N48  
Cercospora herpotrichoides, Eyespot, Fungus diseases (plants), Grain, Plant injuries, Plant protection.

10667-69

STEN RUST OF OATS IN CANADA IN 1968.

J W Martens G J Green  
*Can Plant Dis Surv* 48(3):102-103  
Sep 1968 464.9 C16S  
Crop losses, Fungus diseases (plants), Oats, *Puccinia graminis* avneae, Stem rust.

10668-69

DIFFERENTIAL SENSITIVITY OF VARIOUS PHYTOPATHOGENUS SOIL FUNGI TO METHYL BROMIDE. (IT)

A Matta  
*Giorante Fitopatal* 245-247  
26 Mar 1967 SB599.G5  
Fumigants, Methyl bromide, Pyrenopochaeta lycopersici, *Rhizoctonia solani*, *Sclerotium cepivorum*, *Sclerotium rolfsii*, Soil fungi, *Verticillium dahliae*.

10669-69

EFFECT OF SOIL FUMIGATION ON DISEASE CONTROL AND YIELD OF GLADIOLUS IN SOUTHWESTERN NORTH CAROLINA.

R D Miholland  
*Plant Dis Rep* 53(2):132-136 REF  
Feb 1969 1.9 P69P  
Chemical control (plant diseases), Chemical control (weeds), Crop yields, *Curvularia*, *Cyperus rotundus*, *Dichloropropene*, 1,3-, Fumigants, Fungus diseases (plants), *Fusarium oxysporum* *gladioli*, *Gladiolus*, Methyl bromide, Methyl isothiocyanate, Soil fumigation, Soil-borne plant diseases, *Stromatinia gladioli*.

10670-69

REVERSION DISEASE AND GALL MITE OF BLACK CURRANT.

*Great Brit Min Agr Fish Food Adv Leafl* (277):1-7  
Dec 1967 10 G79LA  
Chemical control (insects), Cultural control (plant diseases), Currants, Endosulfan, Endrin, Eriophyidac, Insect biology, Insect vectors, Lime-sulfur, Plant galls, Virus diseases (plants).

The diagnostic symptoms of reversion disease of black currants and the life cycle of the vector (*Cecidophyopsis ribes*, a gall mite) are discussed. Pruning infected branches, selection of cuttings from healthy stock and applications of endosulfan, endrin and lime-sulfur are the recommended control measures.

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10696-69

**10671-69**  
**PESTS AND DISEASES.**  
**P S T Mirie**  
*Kenya Dep Agr Ann Rep 1:94-95*  
1966 24 AF8A  
Insect pests, Livestock diseases, Plant diseases, Plant pest control.  
Diseases and control were discussed on the following crops: coffee, cotton, maize, wheat, beans, potatoes, passion fruit, groundnut, cassava, fruit and an incidence of tick borne diseases in cattle.

**10672-69**  
**PLANT PATHOLOGY.**  
**P S T Mirie**  
*Kenya Dep Agr Ann Rep 1:38-40*  
1966 24 AF8A  
Bacterial diseases (plants), Brown spot, Legumes, Plant diseases, Potatoes, Seed analysis, Virus diseases (plants), Wilt.

**10673-69**  
**ON THE RELATIVE DURABILITY OF SOME BROAD-LEAVED WOODS TO FUNGAL ATTACK.**  
**S Mizumoto**  
*Jap Wood Res Soc J 14(8):434-439*  
Dec 1968 99.9 J2793  
Fungus cultures, Fungus diseases (plants), Plant hardness, Wood decay. Japanese summary.  
Fungus cultures of *Coriolus hirsutus*, *C. versicolor*, *Lenzites betulina*, *Schizophyllum commune*, *Trametes gibbosa* and *T. sanguinea*.

**10674-69**  
**DESMODIUM PANICULATUM, A PERENNIAL HOST OF BEAN POD MOTTLE VIRUS IN NATURE.**  
**B J Moore H A Scott H J Walters**  
*Plant Dis Rep 53(2):154-155*  
Feb 1969 1.9 P69P  
Cerotoma trifurcata, Chrysomelidae, Desmodium paniculatum, Insect vectors, Kidney beans, Pod mottle, Serological tests, Soybeans, Virus diseases (plants).

**10675-69**  
**DIRECT ISOLATION OF CYLINDROCLADIUM FLORIDANUM FROM SOIL.**  
**R H Morrison D W French**  
*Plant Dis Rep 53(5):367-369*  
May 1969 1.9 P69P  
Cylindrocladium floridanum, Fungus diseases (plants), Soil-borne plant diseases.

**10676-69**  
**ALGAL LEAF SPOT DISEASE ON VARIOUS HOSTS IN TAMILNAD, MADRAS STATE, INDIA.**  
**R Narayanaswami R Ramabadran**  
*Plant Dis Rep 53(2):101*  
Feb 1969 1.9 P69P  
Algae, Cephaluros, Leaf spot, Plant diseases, Plant hosts.

**10677-69**  
**DETERMINATION OF LEAF SPOT RACES IN SOUTHERN ILLINOIS STRAWBERRY PLANTINGS.**  
**S Nemec**  
*Plant Dis Rep 53(2):94-97*  
Feb 1969 1.9 P69P  
Crop varieties, Fungus diseases (plants), Leaf spot, *Mycosphaerella fragariae*, Strawberries.

**10678-69**  
**SCLEROTINIA ROT (SCLEROTINIA SCLEROTIORUM).**  
*Agr Gaz New S Wales 79(3):BACK COVER*  
Mar 1968 23 N472  
Chemical control (plant diseases), Cultural control (plant diseases), Diechloro-4-nitroaniline, 2,6-, Fungus diseases (plants), Sclerotinia rot, Sclerotinia sclerotiorum, Spraying, Symptomatology.

**10679-69**  
**PEACH ROSETTE IN THE M. I. A..**  
*Agr Gaz New S Wales 79(10):606*

Oct 1968 23 N472  
Cultural control (plant diseases), Peaches, Rosette, Virus diseases (plants).  
The symptoms, mode of transmission, and economic result of peach rosette are described. The removal of infected trees is emphasized as a necessary means for controlling the virus disease.

**10680-69**  
**ANTHRACNOSE OF FRENCH BEAN.**  
*Agr Gaz New S Wales 79(1):BACK COVER*  
Jan 1968 23 N472  
Anthracnose, Beans, Bordeaux mixture, Chemical control (plant diseases), *Colletotrichum lindemuthianum*, Fungus diseases (plants), Plant disease control.

**10681-69**  
**EFFECTS OF CROWN RUST ON RYE GRASS.**  
**C O'Rourke**  
*Dublin Foras Taluntais Plant Sci Crop Husb 101*  
1967 103 D852  
Crown rust, Fungus diseases (plants), Immunization, Perennial plants, *Puccinia coronata*, Rye, Spraying.

**10682-69**  
**CLOVER PHYLLODY.**  
**C O'Rourke C L Masterson**  
*Dublin Foras Taluntais Plant Sci Crop Husb 101-102*  
1967 103 D852  
Clover, Forage plants, Phyllody, *Rhizobium*, Virus diseases (plants).

**10683-69**  
**SURVEY OF DISEASES OF GRASSES AND CLOVERS.**  
**C O'Rourke**  
*Dublin Foras Taluntais Plant Sci Crop Husb 98-101*  
1967 103 D852  
Fungus diseases (plants), Grasses, Virus diseases (plants). Nine fungus diseases and virus diseases were recorded on grasses in Ireland.

**10684-69**  
**COMPARISON OF FUNGICIDES, USED IN VARIOUS DOSAGES, AGAINST CORYNEUM BEIJERINCKII OUD. (IT)**  
**E Olmo A Ccsari**  
*Giornate Fitopatol 191-193*  
26 Mar 1967 SB599.G5  
Captan, Chemical control (plant diseases), Chlorinated hydrocarbons, *Coryneum beijerinckii*. Other, less effective fungicides were also tested. fungus diseases (plants) peaches tables (data) thiocarbamates ziram other, less effective fungicides were also tested.

**10685-69**  
**MORPHOLOGICAL STUDIES OF LATICIFER RUPTURE AND LEAF DEVELOPMENT IN LETTUCE, *LACTUCA SATIVA L.***  
**K C Olson**  
*Diss Abstr Sect B 29(3):902B*  
Sep 1968 Z5055. U49D53  
Cells, Leaves, Lettuce, Necrosis, Plant abnormalities, Plant morphology, Tipburn.

**10686-69**  
**MORPHOLOGY AND SIGNIFICANCE OF LATICIFER RUPTURE IN LETTUCE TIPBURN.**  
**K C Olson T W Tibbets B E Struckmeyer**  
*Amer Soc Horticult Sci Proc 91:377-385 REF*  
1967 81 SO12  
Cells, Lactic acid, Latex, Leaves, Lettuce, Morphology, Plant abnormalities, Plant injuries, Plant physiology, Tipburn, Tissues.

**10687-69**  
**INHERITANCE OF RESISTANCE TO MYCOSPHAERELLA CITRULLINA IN MUSK-MELON.**  
**K Prasad J D Norton**  
*Amer Soc Horticult Sci Proc 91:396-400 REF*  
1967 81 SO12

Fungus diseases (plants), Heredity, Muskmelons, *Mycosphaerella citrullina*, Plant breeding, Plant disease resistance, Plant genetics.

**10688-69**  
**RESISTANCE TO RHIZOCTONIA SOLANI IN PHASEOLUS VULGARIS (SNAP BEAN).**  
**K Prasad J L Weigle**  
*Plant Dis Rep 53(5):350-352*  
May 1969 1.9 P69P  
Bacterial diseases (plants), Beans, Plant disease resistance, *Rhizoctonia solani*.

**10689-69**  
**CLOVER VIRUSES IN EASTERN CANADA IN 1967.**  
**M J Pratt**  
*Can Plant Dis Surv 48(3):87-92*  
Sep 1968 464.9 C16S  
Clover, Crop losses, Surveys, Virus diseases (plants). Clover viruses were discovered in Ontario, Quebec, New Brunswick, Nova Scotia and Prince Edward Island.

**10690-69**  
**EFFECTS OF LIME ON POTATO BLIGHT.**  
**A G Prendergast J C Brogan**  
*Dublin Foras Taluntais Plant Sci Crop Husb 91-92*  
1967 103 D852  
Blight, Crop yields, Dithane, Dosage, Fertilizers, Lime, Manganese, Plant disease resistance, Potatoes, Spraying.

**10691-69**  
**DOWNTY MILDEW OF SUGAR BEET.**  
**A G Prendergast**  
*Dublin Foras Taluntais Plant Sci Crop Husb 91*  
1967 103 D852  
Downy mildew, Fungus diseases (plants), Plant disease resistance, Sugar beets.

**10692-69**  
**BLACK STEM RUST OF WHEAT.**  
**A G Prendergast**  
*Dublin Foras Taluntais Plant Sci Crop Husb 91*  
1967 103 D852  
Black stem, Brown rust, Fungus diseases (plants), Rust, Wheat.

**10693-69**  
**INCIDENCE OF MOSAIC ON YIELDS OF SUGAR CANE VARIETIES. (SP)**  
**N E V de Ramallo**  
*Tucuman Rev Indus Agr 45(3):153-166*  
1968 9 T79  
Crop varieties, Crop yields, Epidemiology, Mosaic, Sugarcane, Virus diseases (plants). English summary.

**10694-69**  
**THE RESISTANCE OF ANTI-MILDEW PRODUCTS TO WASHING OFF. (IT)**  
**G Rapparini**  
*Giornate Fitopatol 295-296*  
26 Mar 1967 SB599.G5  
Chemical control (plant diseases), Dinocap, *Erysiphe graminis*, Fungus diseases (plants), Grain, Milde. Other, less effective products were tested.

**10695-69**  
**WHERE BLISTER RUST IS A PROBLEM.**  
**H Rohrbach**  
*Horticult 46(6):43,46*  
Jun 1968 80 H787  
Blister rust, *Cronartium ribicola*, Forest conservation, Fungus diseases (plants), *Picea abies*, *Pinus flexilis*, *Pinus koraiensis*, *Pinus lambertiana*, *Pinus monticola*, *Pinus parviflora*, *Pinus peuce*, *Pinus strobus*, *Pinus sylvestris*, Plant disease resistance.

**10696-69**  
**CITRUS EXOCORTIS VIRUS--CHEMICAL INACTIVATION ON TOOLS, TOLERANCE TO HEAT AND SEPARATION OF ISOLATES.**  
**C N Roistacher E C Calavan R L Blue**  
*Plant Dis Rep 53(5):333-336*  
May 1969 1.9 P69P

## CROP PROTECTION

10697-69

Citrus, Corrosion, Heating, Plant disease transmission, Tools, Virus diseases (plants).

10697-69  
CHEMICAL CONTROL OF THE CEREAL RUSTS.

J B Rowell

*Annu Rev Phytopathol* 6:243-262 REF

1968 464.8 AN72

Chemical control (plant diseases), Economics, Epidemiology, Fungicides, Fungus diseases (plants), Grain, Oxathiins, 1,4-, Puccinia graminis tritici, Rust.

10698-69

A SEVERE FORM OF VERTICILLIUM ALBO-ATRUM IN GOSSYPIUM BARBADENSE IN PERU.

W C Schnathorst

*Plant Dis Rep* 53(2):149-150

Feb 1969 1.9 P69P

Cotton, Crop varieties, Fungus diseases (plants), Plant disease resistance, Verticillium albo-atrum.

10699-69

THE PROPAGATION OF STECKLENBERG DISEASE IN A SOUR CHERRY TREE. (GE)

K Schuch W Mischke L Kunze

*Berlin Biol Bundesanst Land-forstwirtsch Mitt* (121):162-167

Feb 1967 410.9 G31M

Necrotic ringspot virus, Plant disease transmission, Pollen, Prunus serrulata, Sour cherries, Virus diseases (plants). English abstract

10700-69

GUM-POCKET, A NEW VIRUS-LIKE DISEASE OF PONCIRUS TRIFOLIATA.

R E Schwarz A P D McClean

*Plant Dis Rep* 53(5):336-339

May 1969 1.9 P69P

Abnormalities, Citrus, Gum pocket, Symptomatology, Trifoliate oranges, Virus diseases (plants).

10701-69

SEED INFECTION AND TRANSMISSION OF BACTERIAL LEAF STREAK OF RICE.

G S Shekhawat D N Srivastava Y P Rao

*Plant Dis Rep* 53(2):115-116

Feb 1969 1.9 P69P

Bacterial diseases (plants), Bacterial leaf streak, Crop varieties, Epidemiology, Plant disease resistance, Plant disease transmission, Rice, Seedlings, Xanthomonas oryzae.

10702-69

FIELD RESPONSE OF A NEW LINE OF COTTON (GOSSYPIUM HIRSUTUM L.) TO FUSARIUM WILT (FUSARIUM OXYSPORUM F. VASINFECTUM (ATK.) SNYDER AND HANSEN-- DATA FROM 1967/68. (POR)

A P da Silveira B P Bastos Cruz S G P da Silveira *Sao Paulo Inst Biol Arq* 35(4, OCT-DEC):159-163 Dec 1968 442.9 SA6

Fungus diseases (plants), Fusarium oxysporum, Fusarium wilt, Plant breeding, Plant disease resistance, Upland cotton. English abstract

10703-69

PREDISPOSITION OF VIRUS-INFECTED PLANTS TO FUNGUS ROOT-DISEASES.

K Sivasithamparam

*Cur Sci* 38(2):46-47

20 Jan 1969 475 SC123

Mosaic, Plant disease resistance, Root disease, Sunn crotalaria, Trichoderma viride, Virus diseases (plants).

10704-69

BLACK RIB OF WILLOWS IN MANITOBA AND SASKATCHEWAN.

B C Sutton J J Lawrence

*Plant Dis Rep* 53(2):101-102

Feb 1969 1.9 P69P

Black rib, Ciborinia foliicola, Ciborinia wisconsinensis, Epidemiology, Fungus diseases (plants), Salix.

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10705-69

THE FIGHT AGAINST GLOEOSPORIUM IN THE WINTER. RESULTS OF TESTS CONDUCTED IN THE PERIOD 1964-1966. (IT)

G Tonini

*Giornate Fitopatol* 235-240

26 Mar 1967 SB599.G5

Bordeaux mixture, Captan, Chemical control (plant diseases), Chlorinated hydrocarbons, Fentin acetate, Fungus diseases (plants), Gloeosporium album, Mercury compounds.

10706-69

ANTHRAENOSE OF PAPAYA LEAVES CAUSED BY COLLECTOTRICIUM GLOEOSPORIOIDES.

E E Trujillo F P Obrero

*Plant Dis Rep* 53(5):323-325

May 1969 1.9 P69P

Anthraenose, *Colletotrichum gloeosporioides*, Fungus diseases (plants), Leaf spot, Papayas.

10707-69

EFFECTS OF FERTILIZATION SCHEDULES ON FLOWER PRODUCTION, KEEPING QUALITY, DISEASE SUSCEPTIBILITY, AND CHEMICAL COMPOSITION AT DIFFERENT GROWTH STAGES OF CHRYSANTHEMUM MORIFOLIUM.

W E Waters

*Amer Soc Horticult Sci Proc* 91:627-632 REF

1967 81 SO12

Blight, *Botrytis cinerea*, *Chrysanthemum morifolium*, Crop yields, Fertilizers, Fungus diseases (plants), Nitrogen, Phosphorus, Plant biochemistry, Plant disease resistance, Plant physiology, Potassium, Quality control.

10708-69

INVESTIGATIONS ON THE SUSCEPTIBILITY OF SOME POTATO VARIETIES TO INFECTION BY PHYTOPHTHORA INFESTANS (MONT.) DE BARY WHEN USING STAGGERED PLANTING DATES. (GE)

J Weindlmayr

*Kenya Dep Agr Ann Rep* 19(2):138-143 REF

May 1968 24 AF8A

Crop varieties, Fungus diseases (plants), *Phytophthora infestans*, Plant pest resistance, Planting date, Potatoes. English summary.

10709-69

VERTICAL DISTRIBUTION OF FUNGUS SUGGESTS...RIGOLEN PLOWING FOR CONTROL OF VERTICILLIUM WILT IN COTTON.

S Wilhelm J E Sagen H Tietz A George

*Calif Agr* 21(5):2-4

May 1967 100 C12CAG

Cotton, Fungus diseases (plants), Plowing, Soil fungi, Soil sampling, Soil-borne plant diseases, Tillage, Verticillium, Wilt.

## ARTHROPODS

10710-69

SOME SUGGESTIONS FOR CONTROL OF WHITE ANT DAMAGE ON DADAPS (ERYTHIRINA INDICA L.).

M A Balasubramanian

*Indian Coffee Monthly Bull* 32(3):93

Mar 1968 68.29 IN23M

Aldrin, Chemical control (insects), Chlorinated hydrocarbons, *Erythrina indica*, Formulations, Insecticides, Organophosphorus compounds, Parasitism, Parathion, Plant injuries, Plant nematodes, *Rotylengelus reniformis*, Soil treatment, Termites, Wood-destroying insects.

10711-69

THE COFFEE ROOT MEALYBUG COMPLEX.

H Baum

*Kenya Coffee* 33(388):175-178 REF

May 1968 68.29 C652

Aldrin, Chemical control (insects), Chlorinated hydrocarbons, Coffee, Formicidae, Fungus diseases (plants), Insect pests, Insecticide application,

Insecticides, Mycelium, *Pheidole megacephala*, *Planococcus citri*, *Planococcus kenyae*, Plant protection, *Polyporus coffeeae*, Pseudococcidae, Roots, Symbiosis, Zoogeography.

10712-69

BIOCHEMICAL COMPOSITION OF PLANTS OF CUCURBITA FOETIDISSIMA HBK, AND CUCUMIS MELO L. AS RELATED TO CUCUMBER BEETLE FEEDING.

P S Benepal C V Hall

*Amer Soc Horticult Sci Proc* 91:353-360 REF

1967 81 SO12

Amino acids, Attractants, Crop varieties, *Cucurbita foetidissima*, Cysteine, *Diabrotica undecimpunctata howardi*, Feeding, Insect behavior, Leaves, Methionine, Muskmelons, Nitrogen compounds, Phenylalanine, Plant biochemistry, Plant pest resistance, Plant water relations, Proteins.

10713-69

BIOCHEMICAL STUDIES OF PLANTS OF CUCURBITA PEPO L. VARIETIES AS RELATED TO FEEDING RESPONSE OF SQUASH BUG ANASA TRISTIS DEGEER.

P S Benepal C V Hall

*Amer Soc Horticult Sci Proc* 91:361-365 REF

1967 81 SO12

Amino acids, *Anasa tristis*, Ashing, Chromatography, Crop varieties, Feeding, Insect behavior, Methionine, Ninhydrin reaction, Nitrogen, Nutrient solutions (plants), Plant biochemistry, Plant pest resistance, Plant water relations, Proteins, Pumpkins, Threonine.

10714-69

LEAF MINING MOTHS ARE AGAIN OCCURRING MORE OFTEN. (GE)

H Bohm

*Pflanzenarzt* 20(2):11-13

01 Feb 1967 464.9 P48Z

Chemical control (insects), *Diazinon*, *Dichlorvos*, Insect outbreaks, Leaf miners, *Lithocletis blanchardella*, *Lyonetia clerkella*, *Nepticula malcella*, Organophosphorus compounds, Parathion, Trichlorfon.

10715-69

SOME LEPIDOPTERA OF ECONOMIC IMPORTANCE IN COMMONWEALTH COUNTRIES.

J D Bradley

*Brno Acta Univ Agr Fac Agron* 15(3):541-519

MAP REF

1967 S13.B7

Economic entomology, Host indexing (plants), Insect names, Insect pests, Lepidoptera, Plant protection, Zoogeography.

10716-69

THE GYPSY MOTH, PERTHETRIA DISPAR L., A THREAT TO ONTARIO HORTICULTURE AND FORESTRY.

G S Brown

*Entomol Soc Ontario Proc* 98:12-15

1967 420 ON8

Forestry, Horticulture, Insect biology, Insect pests, Lymantriidae, Plant injuries, *Porthetria dispar*, Zoogeography.

10717-69

RELATIONSHIP OF THE GREEN PEACH APHID TO INCIDENCE AND SEVERITY OF LETTUCE MOSAIC.

R W Brubaker D L Coudriet P D Keener

*J Econ Entomol* 61(3):730-732

Jun 1968 421 J822

Crop yields, Insect cages, Insect morphology, Insect pests, Insect vectors, Lettuce, Mosaic, *Myzus persicae*, Plant disease transmission, Plant morphology, Plant physiology, Virus diseases (plants).

10718-69

FOREST PEST CONDITIONS IN CALIFORNIA-1968.

17P

Jan 1969 423.9 C122

Animal vectors, Forest insects, Immunity, Insect pests, Insect vectors, Plant diseases, Plant injuries. **10719-69**  
CONTROL OF SMALL-FRUIT PESTS AND DISEASES 1967. 21P 1967 464.05 B77 Accident prevention, Fruit, Insect vectors, Pest control, Pesticide residues, Pesticides, Plant diseases, Spraying.

**10720-69**  
BUD CHARACTERISTICS OF PONDEROSA PINE RELATED TO POTENTIAL DAMAGE BY THE EUROPEAN PINE SHOOT MOTH. V M Carolin J W Baxter Northwest Pacific Forest Range Exp Sta Us Forest Serv Res No (90):17P REF Scp 1968 A99.9 F7625U Forest insects, Pinus ponderosa, Plant budding, Plant pest resistance, Plant physiology, Rhyacionia buoliana.

**10721-69**  
A MODEL OUTBREAK OF THE MITE TETRANYCHUS MCDANIELI MCGREGOR IN ONTARIO. C D Donaide Entomol Soc Ontario Proc 98:29-45 REF 1967 420 ON8 Amblyseius fallacis, Apples, Experimental insects, Grapes, Insect outbreaks, Insect pests, Orius tricolor, Peaches, Pears, Predaceous insects, Raspberries, Tetranychus mcdanieli, Zoogeography.

**10722-69**  
APHIDS AND VIRUS YELLOWS OF SUGAR BEET. J J Duggan Dublin Foras Taluntais Plant Sci Crop Husb 116-117 1967 103 D852 Aphididae, Insect pests, Sugar beets, Virus diseases (plants), Yellows.

**10723-69**  
CABBAGE ROOT FLY, (ERIOISCHIA BRASSICAE). J J Duggan Dublin Foras Taluntais Plant Sci Crop Husb 117-119 1967 103 D852 Cabbage, Chemical control (insects), Erioischia brassicae, Insect pests, Testing. Insects were treated with 11 insecticides.

**10724-69**  
PYGMY MANGEL BEETLE, (ATOMARIA LINEARIS). A M Fency Dublin Foras Taluntais Plant Sci Crop Husb 120, 122 1967 103 D852 Atomaria linearis, Insect migration, Insect pests, Insect traps, Sugar beets.

**10725-69**  
ACARABEN MITICIDE, BRAND OF CHLOROBENZILATE, FOR BETTER RUST MITE CONTROL ON FLORIDA CITRUS. Geigy Agr Chem (3128):10P 1968 SB952.A2G4 Acaricides, Aerial insect control, Chemical control (insects), Chlorobenzilate, Citrus, Equipment, Insecticide application, Mites, Spraying.

**10726-69**  
CITRUS SCALE INSECTS. J G Gellatley Agr Gaz New S Wales 79(1):9-15 Jan 1968 23 N472 Carbamates, Chemical control (insects), Citrus, Coccoidea, Insecticides, Organophosphorus compounds.

**10727-69**  
OBSERVATIONS ON THE OCCURRENCE OF PESTS OF WHITE MULBERRY (MORUS ALBA L.) IN POLAND. (POL) K Golanski Pol Pismo Entomol 37(1):193-199 15 Aug 1967 421 P76 Insect pests, Morus alba. 27 species of insect pests were found. English summary.

**10728-69**  
RESEARCH ON INTEGRATED CONTROL OF PESTS IN THE EXPERIMENTAL ORCHARD 'DE SCHUILENBURG'. (DU) P Gruijs Neth Dir Tuinbouw Mededel 31(617, JUN-JUL):257-261 1968 86 N384 Fruit, Insect pests, Insecticides, Integrated control (pests), Plant nutrition, Spraying. English summary.

**10729-69**  
1967 KANSAS INSECT CONTROL RECOMMENDATIONS; LIVESTOCK, MAJOR FIELD CROPS. Kansas State Univ Ext Serv MF- (171):31P 1967 S54.4.K2K3 Alfalfa, Beef cattle, Chemical control (insects), Corn, Dairy cattle, Insecticides, Seeds, Sorghum, Soybeans, Wheat. The author lists the chemicals and their trade names that were tested.

**10730-69**  
INVESTIGATIONS OF THE CONTROL OF LIXUS JUNCI BOH. (SE) M Maceljski Zastita Bilja 18(93/95):221-232 REF 1967 464.8 Z1 Chemical control (insects), Crop yields, Dieldrin, Dimethyl O-(4-nitro-m-tolyl) phosphorothioate, O,O-, Fenthion, Heptachlor, Insecticides, Lixus junci, Phosphamidon, Plant injuries, Sugar beets, Thiocron. English summary.

**10731-69**  
EXPERIMENTS IN THE COMPARATIVE CONTROL OF ACULUS PELEKASSI KEIF. (IT) G M Martelli G Laccone Giornate Fitopatol 407-410 26 Mar 1967 SB599.G5 Aculus pelekassi, Barium polysulfide, Chemical control (insects), Chlorinated hydrocarbons, Citrus, Dicofol, Insect pests, Thioacetamates, Zincb.

**10732-69**  
ARRESTANT-FEEDING STIMULANT AS AN ADDITIVE TO SHELL SD-8447 FOR CONTROL OF CORN EARWORM LARVAE IN SWEET CORN. W W McMillian J R Young B R Wiseman A N Spark J Econ Entomol 61(3):642-644 Jun 1968 421 J822 Chemical control (insects), Chloro-1-(2,4,5-trichlorophenyl)vinyl dimethyl phosphate, 2-, Feeding, Greenhouse culture, Heliothis zea, Insect behavior, Insect biochemistry, Insecticides, Larvae, Mortality, Organophosphorus compounds, Stimulants, Sweetcorn.

**10733-69**  
CHRYSANthemum LEAF MINER. Great Brit Min Agr Fish Food Adv Leafl (550):4P Aug 1967 10 G79LA Accident prevention, Biological control (insects), British Isles, Chemical control (insects), Chrysanthemum, Insect biology, Insect pests, Insecticides, Phytomyza atricornis, Phytoxicity, Plant injuries.

**10734-69**  
WATERMELON MOSAIC VIRUS TRANSMISSION AND PROBING BEHAVIOR BY THE GREEN PEACH APHID AS AFFECTED BY PHYSICAL AGITATION. R Namba J Econ Entomol 61(3):667-670 Jun 1968 421 J822 Experimental insects, Insect behavior, Insect vectors, Mosaic, Myzus persicac, Plant disease transmission, Sugar beets, Virology, Virus diseases (plants).

**10735-69**  
FLEA BEETLES IN SUGAR BEET FIELDS. (GE) O Schreier Pflanzenarzt 20(3):27-29 01 Mar 1967 464.9 P482 Chrysomelidae, Insect nutrition, Phyllotreta, Radishes, Rape, Sugar beets, Weeds.

**10736-69**  
EXPERIMENTS WITH TETRASYSTON AND GRANULAR VUAGT-I-4 FOR SUGAR BEET PROTECTION, IN 1965-1966. (CZ) J Smrz S Gaher Agrochemia 7(7):204-206 1967 385 AG88 Atomaria linearis, Chemical control (insects), Disulfoton, Phoma betae, Plant protection, Sugar beets, Thiram. English, German and Russian summaries.

**10737-69**  
THE RELATIONSHIP OF SILK BALLING, HUSK LENGTH, HUSK TIGHTNESS AND BLANK TIP TO EARWORM AND SAP BEETLE RESISTANCE IN MAIZE. R J Snyder Amer Soc Horticult Sci Proc 91:454-461 REF 1967 81 SO12 Carpophilius lugubris, Corn, Crop varieties, Heliothis zea, Heredity, Insect pests, Plant breeding, Plant pest resistance, Plant physiology, Silk balling.

**10738-69**  
DOMESTIC QUARANTINE NOTICES. IMPORTED FIRE ANT. EXEMPTIONS. J F Spears Fed Regist 34(8):7014-7015 29 Apr 1969 L1.451 Hay, Insect pests, Quarantine, Regulations, Solenopsis saevissima richteri, Straw.

**10739-69**  
SOME PROBLEMS REGARDING THE PROTECTION OF APPLES AGAINST SOME SPECIES OF ACARIDAE. (IT) A Ugolini Giornate Fitopatol 393-398 26 Mar 1967 SB599.G5 Acaricides, Acaridae, Apples, Panonychus ulmi, Tetranychidae. Various acaricides and their combinations are tested.

**10740-69**  
REACTION OF LEAF LIFE APHIS FABAE SCOP. ON THE QUALITATIVE CHANGES IN THE CONTENT OF FREE AMINO ACIDS PRESENT IN THE VEGETATIVE ORGANS OF EUONYMUS EUROPEA L. AND SEEDY SUGAR-BEET. (CZ) L Weismann S Halanda Biologia (bratislava) 23(11):849-856 1968 442.8 B5265 Amino acids, Aphis fabae, Euonymus europaeus, Plant physiology, Sugar beets. Russian and German abstract.

**10741-69**  
INACTIVATION OF VIRUS INHIBITORS IN APHIDS. C E Yarwood P Kyriakopoulou Plant Dis Rep 53(2):160 Feb 1969 1.9 P69P Aphididae, Bentonite, Chemical control (plant diseases), Cowpeas, Cucumbers, Erigeron glaucus, Insect vectors, Magnesium silicate, Mosaic, Myzus persicac, Plant disease transmission, Sugar beets, Virology, Virus diseases (plants).

**10742-69**  
CONTRIBUTION TO THE STUDY OF THE MORPHOLOGY OF LEUCOPTERA SCITELLA ZELL. (SE)

## CROP PROTECTION

10743-69

V Zivanovic  
*Zastita Bilja* 18(93/95):233-239  
1967 464.8 Z1

Apples, Cherries, Graeciariidae, Insect morphology, Leaves, Lecoptera scitella, Pears, Quince, Tissues. English summary.

10743-69

INVESTIGATIONS ON THE INSECT PESTS IN THE DIFFERENT TYPES OF OAK FOREST OF THE STRANDJA RANGE (ABSTRACT). (BU)

S Zlatanov  
*Gorskastapanska Nauk* 5(2):67-78  
1968 99.8 G683

Forest insects, Insect pests, Plant ecology, Population, Quercus. French and Russian summaries.

164 insect pests of oak trees are identified.

## NEMATODES

10744-69

TUBER ROT EELWORM, (DITYLENCHUS DESTRUCTOR).

*Dublin Foras Taluntais Plant Sci Crop Husb* 109-111  
1967 103 D852

Crop yields, *Ditylenchus destructor*, Nematode infestation, Plant diseases, Potatoes.

10745-69

CEREAL CYST EELWORM, (HETERODERA AVENAE).

J J Duggan

*Dublin Foras Taluntais Plant Sci Crop Husb* 107-108  
1967 103 D852

Barley, Crop varieties, Crop yields, *Heterodera avenae*, Plant disease resistance, Plant nematode resistance.

10746-69

POTATO CYST EELWORM, (HETERODERA ROSTOCHIENSIS).

J J Duggan

*Dublin Foras Taluntais Plant Sci Crop Husb* 103-106  
1967 103 D852

Crop yields, Cysts, *Heterodera rostochiensis*, Plant diseases, Plant nematode resistance, Potatoes.

10747-69

ROOT KNOT EELWORM, (MELOIDOGYNE SPECIES).

J J Duggan

*Dublin Foras Taluntais Plant Sci Crop Husb* 113  
1967 103 D852

Lettuce, *Meloidogyne*, Plant nematodes, Tomatoes.

10748-69

OTHER NEMATODE INVESTIGATIONS.

J J Duggan

*Dublin Foras Taluntais Plant Sci Crop Husb* 114  
1967 103 D852

Mushrooms, Nematode infestation, Plant nematodes.

10749-69

STEM AND BULB EELWORM, (DITYLENCHUS DIPSACI).

J J Duggan

*Dublin Foras Taluntais Plant Sci Crop Husb* 111-112  
1967 103 D852

Chemical control (nematodes), Crop varieties, *Ditylenchus dipsaci*, Dosage, Nematode infestation, Seed analysis. Control was obtained by treatments with Dazomet, DD fluid, and application of nemafos.

10750-69

VIRUS VECTOR NEMATODES.

J J Duggan J F Moore

*Dublin Foras Taluntais Plant Sci Crop Husb* 113-114, 115  
1967 103 D852

## BIBLIOGRAPHY

Animal vectors, *Longidorus*, Plant nematodes, Surveys, Virus diseases (plants), *Xiphinema diversicaudatum*.

10751-69

LEAF AND BUD EELWORM, (APHELENCHIIDIDES SP.).

J J Duggan

*Dublin Foras Taluntais Plant Sci Crop Husb* 113  
1967 103 D852

*Aphelenchoides*, Nematode infestation, Strawberries, Temperature.

10752-69

ADULT HORNWORM POPULATIONS AND DEGREE OF INFESTATION ON TOBACCO IN RELATION TO COMMUNITY-WIDE GROWER USE OF BLACKLIGHT TRAPS.

S B Hays

*J Ecan Entomol* 61(3):613-617

Jun 1968 421 J822

Biological control (insects), *Imagis*, Insect pests, Light traps, *Manduca sexta*, Population, Tobacco.

10753-69

CONTROL OF MELOIDOGYNE INCOCGNITA ON BOXWOOD WITH NEMATICIDAL DRENCHES.

A W Johnson

*Plant Dis Rep* 53(2):128-130

Feb 1969 1.9 P69P

*Buxus microphylla japonica*, Chemical control (nematodes), Drenches, *Meloidogyne incognita*, Nematocides, Plant nematodes.

10754-69

CACTUS CYST NEMATODE, HETERODERA CACTI, IN FLORIDA, WITH HOST LIST.

K R Langdon R P Esser

*Plant Dis Rep* 53(2):123-125 REF

Feb 1969 1.9 P69P

*Heterodera cacti*, *Mammillaria*, *Melocactus*, Nurseries, Plant hosts, Plant nematodes.

10755-69

CLOVER CYST EELWORM, (HETERODERA TRIFOLII).

F McGloughlin

*Dublin Foras Taluntais Plant Sci Crop Husb* 109

1967 103 D852

Clover, *Heterodera trifolii*, Plant nematodes, Sterility, Sugar beets, Vetch.

10756-69

BEET CYST EELWORM, (HETERODERA SCHACHTII).

F McGloughlin

*Dublin Foras Taluntais Plant Sci Crop Husb* 108-109

1967 103 D852

Cysts, *Heterodera schachtii*, Nematode infestation, Plant diseases, Surveys.

10757-69

SUGARBEET NEMATODES FOUND ON GARDEN RED BEET IN OHIO.

R E Partyka

*Plant Dis Rep* 53(2):118

Feb 1969 1.9 P69P

Beets, *Heterodera schachtii*, Plant injuries, Plant nematodes, Sugar beets, Zoogeography.

10758-69

PHYTOPATHOGENIC NEMATODES IN HESSEN FOREST TREE NURSERIES. (GE)

J Rossner

*Berlin Biol Bundesanst Land-forstwirtsch Mitt*

(121):82-87

Feb 1967 410.9 G31M

Conifers, Nematode populations, Plant nematodes, *Pratylenchus penetrans*, *Rotylenchus robustus*, Trees. English abstract

10759-69

NEW PHYTONEMATODE FOR THE FAUNA USSR. (CZ)

M Sabova

*Bulagia (bratislava)* 23(11):907-909

1968 442.8 B5265

Plant nematodes, Taxonomy. Russian abstract.

10760-69

INVASION OF THE HEDYSAREAE BY HETERODERA TRIFOLII.

E V Stehman D C Norton

*Plant Dis Rep* 53(2):121-123

Feb 1969 1.9 P69P

*Aschynomene virginica*, Cysts, *Heterodera trifolii*, Legumes, Plant nematodes, Sainfoin.

10761-69

OCCURRENCE OF TRICHODORUS SPECIES IN WEST GERMANY. (GE)

D Sturhan

*Berlin Biol Bundesanst Land-forstwirtsch Mitt* (121):146-151 REF

Feb 1967 410.9 G31M

Catalogs, Nematode populations, Nematode vectors, Plant disease transmission, *Trichodorus*, Virus diseases (plants). English abstract

10762-69

EXPERIMENTAL TESTS IN THE CONTROL OF HETERODERA SCHACHTII SCHM. (IT)

R Taecconi A Ugolini

*Giornate Fitopatol* 443-448

26 Mar 1967 SB599.G5

Chemical control (nematodes), Costs, *Dichloropropane*, *dichloropropene* mixture, *Heterodera schachtii*, *Methyl bromide*, *Methyl isothiocyanate*, Plant nematodes, Sugar beets, Tables (data). Other less effective nematocides were tested.

## WEEDS

10763-69

PRE-EMERGENCE HERBICIDES ON CEREAL CROPS.

*Dublin Foras Taluntais Plant Sci Crop Husb* 8-9,10  
1967 103 D852

Chemical control (weeds), Crop varieties, Emergence, Grain, Herbicides, Triazines, Wheat.

10764-69

POST-EMERGENCE HERBICIDES ON CEREAL CROPS.

*Dublin Foras Taluntais Plant Sci Crop Husb* 9,11  
1967 103 D852

Chemical control (weeds), Crop varieties, Emergence, Grain, Herbicides. Nine different herbicides were tested.

10765-69

FURTHER TESTS ON THE USE OF DICHLOROTHIOBENZAMIDE AGAINST WEED INFESTATION IN VINEYARDS. (IT)

M Ambrosi

*Giornate Fitopatol* 527-532

26 Mar 1967 SB599.G5

Chemical control (weeds), *Convolvulus*, *Cynodon dactylon*, *Dichlorothiobenzamide*, 2,6-, Grape vineyards, Phytotoxicity.

10766-69

NUTSEDGE SUPPRESSION UNDER DIFFERENT CROPPING PRACTICES. (ABSTRACT).

R S Baker

*Weed Soc Amer Abstr* 1967 MEETING:5-6

1967 241 W41

Corn, Cotton, Crop rotation, *Cyperus rotundus*, Soybeans, Weed control, Yams.

10767-69

EFFECTS OF SEVERAL OILS AND SURFACTANTS ON THE ENHANCEMENT OF ATRAZINE FOR WEED CONTROL IN CORN. (ABSTRACT).

J D Bandeen W C Verstraete

*Weed Soc Amer Abstr* 1967 MEETING:9-10

1967 241 W41

Atrazine, Chemical control (weeds), Corn, Grasses, Herbicides, Oils, Spraying, Surface-active agents.

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## CROP PROTECTION

10791-69

**10768-69**  
STUDIES ON THE DETERMINATION OF THE CHEMICAL TO BE USED IN THE CHEMICAL CONTROL OF WOODY PLANTS IN THE AEGEAN REGION. (TU)

S Bilgir H Bakirci

*Bitki Koruma Bulteni* 8(3):214-218

1968 464.8 B542

Chemical control (weeds), Climbing plants, Dosage. English summary.

The chemicals tested were Regulex, Kuron, Banvel-D, Trysben-200, Karmex and Dalapon.

**10769-69**

INFLUENCE OF HERBICIDES ON ROOT DEVELOPMENT OF BERMUDAGRASS. (ABSTRACT).

S W Bingham

*Weed Soc Amer Abstr* 1967 MEETING:26

1967 241 W41

Chemical control (weeds), Cynodon dactylon, Field crops, Greenhouse culture, Herbicides, Plant physiology. Roots.

**10770-69**

SUBMERSED AQUATIC WEED CONTROL IN AN IRRIGATION SYSTEM WITH ACRYLIC. (ABSTRACT).

V F Bruns

*Weed Soc Amer Abstr* 1967 MEETING:28-29

1967 241 W41

Acrylic, Aquatic weeds, Chemical control (weeds), Irrigation ditches, Potamogeton foliosus, Potamogeton pectinatus, Zannichellia palustris.

**10771-69**

PROBLEMS OF THE USE OF HERBICIDES IN POTATO CULTURES. (GE)

R Burghausen

*Brun Acta Univ Agric Fac Agron* 15(3):493-499

1967 S13.B7

Chemical control (weeds), Cultural control (weeds), Herbicides, Potatoes, Tables (data), Weeds.

The interdependence of cultural and chemical control is stressed. Many weeds and herbicides are listed.

**10772-69**

HERBICIDES CAN BE USED WHILE ESTABLISHING WARM SEASON TURF-GRASSES VEGETATIVELY. (ABSTRACT).

E O Burt B L James

*Weed Soc Amer Abstr* 1967 MEETING:27

1967 241 W41

Chemical control (weeds), Cynodon dactylon, Fertilizers, Grasses, Herbicides, Spraying, Stenotaphrum secundatum, Temperature, Turf.

**10773-69**

WEED PROBLEMS AND THEIR SOLUTION IN RICE CROPS IN ITALY. (IT)

L Chiapparini

*Milan Univ Inst Patol Veg Pubbl Raccolta* (331):269 MAP REF

1967 464.9 M582

Chemical control (weeds), Crop varieties, Herbicides, Methodology, Rice. Italian summary. Reprint from: *Notiziario sulle Malattie delle Piante* 76/77 (III scr 3/4).

11 herbicides were tested on rice varieties. 76/77 (III scr 3/4).

**10774-69**

NEW TESTS OF CHEMICAL WEED CONTROL IN GRAPES IN FRIULI. (IT)

A Cosolo Giusiani P L Carniel

*Giornate Fitopatol* 53:7-542

26 Mar 1967 SB599.G5

Chemical control (weeds), Costs, Dichlorothiocarbamide, 2,6-, Diuron, Grapes, Linuron, Weeds.

**10775-69**

WEED CONTROL UNDER CLEAR PLASTIC MULCH FOR TRANSPLANTED MUSKMELONS (CUCUMIS MELO L.). (ABSTRACT).

C T Dickerson D W Davis C H Buchholz

*Weed Soc Amer Abstr* 1967 MEETING:16

1967 241 W41

Chemical control (weeds), Mulches, Muskmelons, Plastics.

**10776-69**

EFFECTS OF HERBICIDES AND APPLICATION METHODS ON WEEDS IN NURSERY CONTAINERS AND PHYTOTOXICITY TO ORNAMENTAL PLANTS. (ABSTRACT).

C L Elmore D S Farnham J R Bruegg

*Weed Soc Amer Abstr* 1967 MEETING:17

1967 241 W41

Chemical control (weeds), Herbicides, Ornamental plants, Pesticide application, Plant injuries, Simazine, Trifluralin.

**10777-69**

WINGED ELM CONTROL WITH PICLORAM AND 2,4,5-T WITH ADDITIVES (ABSTRACT).

H M Elwell

*Weed Soc Amer Abstr* 1967 MEETING:24

1967 241 W41

Brush control, Chemical control (weeds), Grasses, Herbicides, Phenoxy acid compounds, Picloram, Spraying, T, 2,4,5-, Ulmus alata.

**10778-69**

INTERCELLULAR MOVEMENT OF C14 IN CHARA VULGARIS, A NONVASCULAR AQUATIC PLANT. (ABSTRACT).

T O Eurard R D Johnson W E Chappell

*Weed Soc Amer Abstr* 1967 MEETING:31-32

1967 241 W41

Aquatic plants, Autoradiography, Carbon isotopes, Chara, Chemical control (weeds), Chromatography, D, 2,4-, Light, Phenoxy acid compounds, Plant translocation, Radioactive tracers, Water.

**10779-69**

SELECTIVITY OF CHLOROXURON AGAINST SOYBEAN AND MORNING GLORY. (ABSTRACT).

R W Feeny

*Weed Soc Amer Abstr* 1967 MEETING:2

1967 241 W41

Chloroxuron, Herbicides, Ipomoea, Plant growth inhibitors, Soybeans.

**10780-69**

CHLORFLURAZOLE ON WEEDS IN CEREALS.

C Frost

*Dublin Foras Taluntais Plant Sci Crop Husb* 9,12

1967 103 D852

Chemical control (weeds), Chlorflurazole, Crop yields, Grain, Herbicides.

**10781-69**

LONG-TERM EFFECTS OF USE OF PRE-EMERGENCE CRABGRASS CONTROL CHEMICALS.

D D Hemphill

*Weed Soc Amer Abstr* 1966 MEETING:73-74

1966 241 W41

Calcium arsenate, Chemical control (weeds), Chlordane, Digitaria, Euphorbia supina, Herbicides.

**10782-69**

ERADICATION OF CURLYLEAF PONDWEED FROM MANSION POND. (ABSTRACT).

R C Hiltbran

*Weed Soc Amer Abstr* 1967 MEETING:30

1967 241 W41

Aquatic weeds, Chara, Chemical control (weeds), Endothal, Herbicides, Potamogeton crispus.

**10783-69**

CONTROL OF REED CANARYGRASS ALONG IRRIGATION CANALS. (ABSTRACT).

J M Hodgson

*Weed Soc Amer Abstr* 1967 MEETING:28

1967 241 W41

Amitrole, Aquatic weeds, Canals, Chemical control (weeds), Dalapon, Food plants, Irrigation ditches, Phalaris arundinacea, Pyriproxyfen, Trichloroacetic acid.

**10784-69**

A NEW PLOT TECHNIQUE FOR AQUATIC WEED CONTROL STUDIES. (ABSTRACT).

E B Hollingsworth

*Weed Soc Amer Abstr* 1967 MEETING:31

1967 241 W41

Aquatic weeds, Chemical control (weeds), Enclosures, Herbicides, Pesticide application.

**10785-69**

GREENHOUSE STUDIES WITH HYGROSCOPIC COMPOUNDS AS ADDITIVES TO PHENOXY HERBICIDES FOR CONTROL OF SALT-CEDAR (TAMARIX PENTANDRA PALL.). (ABSTRACT).

E E Hughes

*Weed Soc Amer Abstr* 1967 MEETING:51-52

1967 241 W41

Chemical control (weeds), Greenhouse culture, Herbicides, Phenoxy acid compounds, Plant biochemistry, Tamarix pentandra, Weather.

**10786-69**

PARAQUAT REDUCES BARLEY GRASS IN LUCERNE PASTURE.

T B Kiely

*Agr Gaz New S Wales* 79(10):612

Oct 1968 23 N472

Alfalfa, Chemical control (weeds), Crop yields, Grasses, Paraquat.

Barley grass was effectively controlled in spring lucerne pastures by spraying with paraquat in late winter at the rate of two pints per acre.

**10787-69**

A STUDY OF ADDITIVES TO THE AQUEOUS PHASE OF AERILLY APPLIED INVERT EMULSIONS. (ABSTRACT).

J H Kirch J E Esposito

*Weed Soc Amer Abstr* 1967 MEETING:21

1967 241 W41

Aerial brush control, Chemical control (weeds), Emulsions, Helicopters, Herbicides.

**10788-69**

AN ECONOMICAL CONTROL METHOD FOR VEGETATION IN DRAINAGE CANALS. (ABSTRACT).

V T Lapham

*Weed Soc Amer Abstr* 1967 MEETING:29

1967 241 W41

Aquatic weeds, Chemical control (weeds), Cynodon dactylon, Drainage ditches, Organic compounds, Phenoxy acid compounds, Picloram, Silvex.

**10789-69**

CONTROL OF WINGED ELM (ULMUS ALATA MICHX.). (ABSTRACT).

S K Lehman F S Davis

*Weed Soc Amer Abstr* 1967 MEETING:23-24

1967 241 W41

Bromacil, Brush control, Chemical control (weeds), Dicamba, Herbicides, Pesticide application, Phenoxy acid compounds, Picloram, T, 2,4,5-, Ulmus alata.

**10790-69**

THE FLAME CULTIVATOR AS A TOOL FOR WEED CONTROL IN CORN. (ABSTRACT).

R M Lien J B Liljedahl

*Weed Soc Amer Abstr* 1967 MEETING:8-9

1967 241 W41

Corn, Cultural control (weeds), Weed burners.

**10791-69**

SELECTIVE HERBICIDES IN GUAR (CYAMOPSIS TETRAGONOLOBA, TAUB.). (ABSTRACT).

M. Lifshitz B Retig

*Weed Soc Amer Abstr* 1967 MEETING:6-7

1967 241 W41

Chemical control (weeds), Guar, Herbicides, Legumes.

## CROP PROTECTION

10792-69

### FUEL EVALUATION FOR A MISSOURI PINE PLANTATION RELEASED BY AERIAL SPRAYING.

R M Loomis J S Crosby

*U S Forest Serv Res Note N C* (64)14P

1968 ASD11.A33

Aerial spraying, Fires, Hardwoods, Herbicides, Spraying.

10793-69

### TESTS ON THE CONTROL OF PHRAGMITES COMMUNIS AND OTHER EMERGING AQUATIC WEEDS. (IT)

A Loschiavo

*Giornate Fitopatol* 557-565 REF

26 Mar 1967 SB599.G5

Aquatic weeds, Chemical control (weeds), Chlorinated hydrocarbons, Dalapon, Diquat, Paraquat, Phragmites communis, Sparganium, Typha.

10794-69

### WESTERN WHORLED MILKWEED AND ITS CONTROL IN NEBRASKA. (ABSTRACT).

M K McCarty C J Seifres

*Weed Soc Amer Abstr* 1967 MEETING:23

1967 241 W41

Asclepias verticillata, Chemical control (weeds), Herbicides.

10795-69

### CONTROLLING BERMUDAGRASS IN ASPHALT PAVEMENTS. (ABSTRACT).

W G McCully

*Weed Soc Amer Abstr* 1967 MEETING:21

1967 241 W41

Asphalts, Chemical control (weeds), Cynodon dactylon, Herbicides, Pavements.

10796-69

### TROUBLE IN WILD OAT CONTROL.

A D Mears

*Agr Gaz New S Wales* 79(4):194-197

Apr 1968 23 N472

Avena fatua, Barban, Chemical control (weeds), Cultural control (weeds), Herbicides, Methodology, Paraquat, Spraying, Triallate, Weed control, Wheat.

Wild oats, Avena fatua, are a considerable pest in wheat crops and cultural methods as well as the proper use of several herbicides are outlined here.

10797-69

### SOIL-INCORPORATED HERBICIDES IN FURROW-IRRIGATED ONIONS. (ABSTRACT).

R M Menges J L Hubbard

*Weed Soc Amer Abstr* 1967 MEETING:18

1967 241 W41

Amaranthus retroflexus, Chemical control (weeds), Echinochloa crusgalli, Herbicides, Irrigation, Mulches, Onions, Pesticide application, Soil sanitation.

10798-69

### CONTROL OF THE BIENNIAL THISTLE, ONOPORDUM, BY AMITROLE AND FIVE PERENNIAL GRASSES.

P W Michael

*Australian J Exp Agr Anim Hush* 8(32):332-339

REF

Jun 1968 23 AU792

Amitrole, Biological control (weeds), Chemical control (weeds), Dactylis glomerata, Festuca arundinacea, Grasses, Lolium perenne, Onopordum acanthium, Onopordum illyricum, Perennial plants, Phalaris tuberosa, Spraying, Subterranean clover.

10799-69

### COMPARISON OF SUBSTITUTED URACILS FOR WEED CONTROL IN SUGARCANE. (ABSTRACT).

R W Millhollen

*Weed Soc Amer Abstr* 1967 MEETING:1

1967 241 W41

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Bromacil, Chemical control (weeds), Herbicides, Sugarcane, Terbacil, Toxicology, Uracil compounds.

10800-69

### SURREY.

*Great Brit Min Agr Fish Food Adv Leafl* (182):4P Feb 1968 10 G79LA

Accident prevention, Chemical control (weeds), Dosage, Soil analysis, Spergula arvensis.

10801-69

### AERIAL SPRAYING.

B J Mitchell

*Dublin Foras Taluntais Plant Sci Crop Hush* 33

1967 103 D852

Aerial spraying, Chemical control (weeds), Chlorinated hydrocarbons, Dalapon, Diquat, Paraquat, Phragmites communis, Sparganium, Typha.

10802-69

### AQUATIC WEED CONTROL.

B J Mitchell

*Dublin Foras Taluntais Plant Sci Crop Hush* 33

1967 103 D852

Amitrole, Aquatic weeds, Chemical control (weeds), Chlorinated hydrocarbons, D, 2,4-, Dalapon, Diquat, Herbicides, Paraquat, Phenoxy acid compounds.

10803-69

### CONTROL OF BROAD-LEAF DOCK (RUMEX OBATUSIFOLIUS).

B J Mitchell

*Dublin Foras Taluntais Plant Sci Crop Hush* 32

1967 103 D852

Aminobenzenesulfonyl)methylcarbamate, N-(4-, Chemical control (weeds), D, 2,4-, Herbicides, Phenoxy acid compounds, Pieloram, Rumex obtusifolius.

10804-69

### CONTROL OF BRACKEN FERN (PTERIDIUM AQUILINUM).

B J Mitchell

*Dublin Foras Taluntais Plant Sci Crop Hush* 33-36

1967 103 D852

Chemical control (weeds), Dicamba, Emergence, Herbicides, Pieloram, Pteridium aquilinum.

10805-69

### CONTROL OF SOFT RUSH (JUNCUS EFUSUS).

B J Mitchell

*Dublin Foras Taluntais Plant Sci Crop Hush* 30-32

1967 103 D852

Chemical control (weeds), Fertilizers, Herbicides, Juncus effusus, Methyl-4-chlorophenoxyacetic acid, 2-, Phenoxy acid compounds.

10806-69

### FALL AND WINTER APPLICATION OF TRIFLURALIN, A NEW CONCEPT IN WEED CONTROL. (ABSTRACT).

C E Moore J L Barrentine

*Weed Soc Amer Abstr* 1967 MEETING:2-3

1967 241 W41

Chemical control (weeds), Herbicides, Soil sanitation, Time, Trifluralin.

10807-69

### CONTROL OF EMERGED WEEDS IN FLORIDA SUGARCANE WITH PREEMERGENCE HERBICIDES. (ABSTRACT).

J R Orsenigo

*Weed Soc Amer Abstr* 1967 MEETING:1-2

1967 241 W41

Atrazine, Chemical control (weeds), Herbicides, Sugarcane.

10808-69

### YIELDS OF TIMOTHY AND LESPEDEZA AFTER REDUCING COMPETITION FROM GOLDENROD WITH HERBICIDES. (ABSTRACT).

E J Peters J F Stritzke

*Weed Soc Amer Abstr* 1967 MEETING:23

1967 241 W41

Chemical control (weeds), Crop yields, Herbicides, Phlum, Plant ecology, Solidago.

10809-69

### THE TOLERANCE OF SEVERAL FRUIT CROPS TO APPLICATIONS OF TERBACIL. (ABSTRACT).

A A Putnam J Hull

*Weed Soc Amer Abstr* 1967 MEETING:17

1967 241 W41

Chemical control (weeds), Fruit, Herbicides, Pesticide application, Plant injuries, Roots, Terbacil.

10810-69

### OBSERVATIONS IN LONG-TERM EXPERIMENTS WITH WEEDS AND HERBICIDES. (GE)

B Radmacher

*Berlin Biol Bundesanst Land-forstwirtsch Mitt* (121):177-185

Feb 1967 410.9 G31M

Chemical control (weeds), D, 2,4-, Dicotyledons, Grain, Herbicides, Methyl-4-chlorophenoxyacetic acid, 2-, Root rot, Soil microorganisms, Weed control. English abstract

10811-69

### INCREASING THE EFFECTIVENESS OF SOME HERBICIDES WITH PICLORAM FOR CONTROL OF CORN CHAMOMILE IN BARLEY. (ABSTRACT).

J B Regan R D Ilnicki

*Weed Soc Amer Abstr* 1967 MEETING:11-12

1967 241 W41

Barley, Camomile, Chemical control (weeds), Grain, Herbicides, Pieloram.

10812-69

### EFFECT OF DENSITY AND CONTROL OF CANADA THISTLE ON PRODUCTION AND UTILIZATION OF ALFALFA PASTURE. (ABSTRACT).

M M Schreiber

*Weed Soc Amer Abstr* 1967 MEETING:13

1967 241 W41

Agricultural economics, Alfalfa, Circium arvense, Pastures, Sheep, Weed control.

10813-69

### PELLETTED HERBICIDES FOR CONVERSION OF LOW-QUALITY HARDWOOD SITES TO JAPANESE LARCA (LARIX LEPTOLEPIS). (ABSTRACT).

R D Shipman

*Weed Soc Amer Abstr* 1967 MEETING:22

1967 241 W41

Brush control, Chemical control (weeds), Dicamba, Fenuron, Forests, Formulations, Herbicides, Larix leptolepis, Pesticide application.

10814-69

### CONTROL OF WEEDS IN DIRECT-SEEDED ONIONS. (ABSTRACT).

D Smith

*Weed Soc Amer Abstr* 1967 MEETING:14

1967 241 W41

Chemical control (weeds), Herbicides, Onions, Seed planting.

10815-69

### FACTORS AFFECTING THE PERFORMANCE OF MOLINATE FOR CONTROL OF WEEDS IN RICE. (ABSTRACT).

R J Jr. Smith

*Weed Soc Amer Abstr* 1967 MEETING:3-4

1967 241 W41

Chemical control (weeds), Cyperus, Echinochloa, Fimbristylis, Herbicides, Molinate, Rice.

10816-69

### CONTROL OF EURASIAN WATERMILFOIL IN CHESAPEAKE BAY. (ABSTRACT).

J H Steenis V D Stotts

*Weed Soc Amer Abstr* 1967 MEETING:30-31

1967 241 W41

Aquatic plants, Aquatic weeds, Chemical control (weeds), Chesapeake Bay, Esters, Herbicides, Myriophyllum spicatum.

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10840-69

**10817-69**  
**INFLUENCE OF ADJUVANTS ON THE PHYTOXICITY AND FOLIAR ABSORPTION OF PYRAZON. (ABSTRACT).**

G R Stephenson A R Putnam  
*Weed Soc Amer Abstr 1967 MEETING:15*

1967 241 W41

Absorption, Bccts, Bird rape, Herbicides, Leaves, Plant injuries, Pyrazon, Setaria italicca, Spraying, Surface-active agents.

**10818-69**

**RESPONSE OF CRABGRASS SEEDLINGS TO VARIOUS HERBICIDES. (ABSTRACT).**

C M Switzer  
*Weed Soc Amer Abstr 1967 MEETING:26*

1967 241 W41

Agrostis alba, Chemical control (weeds), Digitaria, Greenhouse culture, Herbicides, Seed germination, Sorghum, Sorghum vulgare sudanense, Temperature, Time.

**10819-69**

**PRE-EMERGENCE HERBICIDES IN SUGAR BEET.**

T M Thomas  
*Dublin Foras Taluntais Plant Sci Crop Husb 25,26*

1967 103 D852

Chemical control (weeds), Dosage, Emergence, Herbicides, Plant injuries, Sugar beets. 5 other herbicides were tested.

**10820-69**

**WEED CONTROL IN KALE AND SWEDES.**

T M Thomas  
*Dublin Foras Taluntais Plant Sci Crop Husb 30*

1967 103 D852

Chemical control (weeds), Crop yields, Dosage, Herbicides, Kale, Rutabagas. 3 herbicides were evaluated on medium soils.

**10821-69**

**WEED CONTROL IN CRAMBE ABSYNICA.**

T M Thomas  
*Dublin Foras Taluntais Plant Sci Crop Husb 30*

1967 103 D852

Emergence, Herbicides, Plant biochemistry. Ten pre-emergence herbicides were tested. Best results were obtained with C7019, SD11831, trifluralin and nitrofen.

**10822-69**

**SELECTIVE WEED CONTROL IN DIRECT-SEEDED TOMATOES. (ABSTRACT).**

T F Tisdell  
*Weed Soc Amer Abstr 1967 MEETING:14*

1967 241 W41

Chemical control (weeds), Crop yields, Herbicides, Plant injuries, Seed planting, Tomatoes.

**10823-69**

**COOPERATIVE RESEARCH ON THE CONTROL OF TROPICAL AND SUBTROPICAL WOODY PLANTS. (ABSTRACT).**

F H Tschirley  
*Weed Soc Amer Abstr 1967 MEETING:24*

1967 241 W41

Brush control, Chemical control (weeds), Defoliation, Herbicides, Paraquat, Pesticide application, Picloram, Shrubs, Tropical plants.

**10824-69**

**RESEARCH REPORT; RESPONSE OF TROPICAL AND SUBTROPICAL WOODY PLANTS TO CHEMICAL TREATMENTS.**

F H Tschirley  
*U S Agr Res Serv Res Rep CR- (13-67):197P*

REF

Feb 1968 AS585.T75

Aerial weed control, Chemical control (weeds), Climbing plants, Defoliation, Environment, Forests, Greenhouse culture, Herbicide residues, Herbicides. The names of the chemicals used and plant names are listed.

**10825-69**

**TESTS OF CHEMICAL WEED CONTROL IN VINEYARDS. (IT)**

V Tullio D Ponis

*Giornate Fitopatol 53:3-53*

26 Mar 1967 SB599.G5

Atrazine, Chemical control (weeds), Chlorinated hydrocarbons, Convolvulus, Dalapon, Dichlorothiobenzamide, 2,6-, Diquat, Grape vineyards. Other less efficient herbicides were tested.

**10826-69**

**TESTS OF CHEMICAL WEED CONTROL IN PEAR ORCHARDS. (IT)**

V Tullio C Casarini

*Giornate Fitopatol 52:3-52*

26 Mar 1967 SB599.G5

Chemical control (weeds), Dichlorothiobenzamide, 2,6-, Pears, Weeds. Other less effective herbicides were tested.

**10827-69**

**EFFECTS OF PHOSPHORUS FERTILIZER, HERBICIDES AND SEED-BED PREPARATION ON THE ESTABLISHMENT OF ALFALFA AND BIRDSFOOT TREFOIL. (ABSTRACT).**

R Valdes W R Furtick J Cardenas

*Weed Soc Amer Abstr 1967 MEETING:12-13*

1967 241 W41

Alfalfa, Birdsfoot trefoil, Chemical control (weeds), Fertilizers, Herbicides, Phosphorus, Seed-beds.

**10828-69**

**STUDIES ON SOYBEAN-WEED COMPETITION. (ABSTRACT).**

L M Wax F W Slife

*Weed Soc Amer Abstr 1967 MEETING:38-39*

1967 241 W41

Crop yields, Plant ecology, Soybeans, Weeds.

**10829-69**

**ABSTRACTS, 1967 MEETING OF THE WEED SOCIETY OF AMERICA, FEBRUARY 13-16, 1967, WASHINGTON, D. C.**

*Weed Soc Amer Abstr 99 P.*

1967 241 W41

Societies, Weeds.

**10830-69**

**IMPROVING CHEMICAL AND MECHANICAL WEED CONTROL IN CORN WITH FLAMING. (ABSTRACT).**

H P Wilson R D Ilnicki

*Weed Soc Amer Abstr 1967 MEETING:7*

1967 241 W41

Corn, Cultural control (weeds), Weed burners.

## OTHER PESTS

**10831-69**

**CYANIDE AS A POISON IN OPOSSUM CONTROL.**

I G McIntosh

*New Zeal J Agr 116(4):44-45*

Apr 1968 23 N48J

Chemical control (pests), Cyanides, Gas poisoning, Methodology, Opossums, Pest control.

## LIVESTOCK PROTECTION

**10832-69**

**NUCLEIC ACID CONTENT IN SMALL SAMPLES AND INDIVIDUAL SPINAL CORD CELLS AT DIFFERENT FUNCTIONAL STATES. (RUS)**

S H Haidarliu

*Biokhimiya 32(4):667-682* REF

1967 385 B523

Biochemistry, Cells, Central nervous system, Deoxyribonucleic acid, Electric stimulation, Laboratory animals, Nucleic acids, Rats, Spinal cord. English summary.

## LIVESTOCK PROTECTION

10840-69

**10833-69**

**APPEARANCE OF CX-REACTIVE PROTEIN IN PLASMA OF RABBITS WITH CORRESPONDING DECREASE IN LIVER CATALASE FOLLOWING 3-AMINO1,2,4-TRIAZOLE ADMINISTRATION. (ABSTRACT).**

Y Hokama H Ochiai K Yamada

*Fed Amer Soc Exp Biol Fed Proc 22(2):722*

Mar 1968 442.9 F31P

Amitrole, Blood plasma, Catalase, Culture media, Kidneys, Liver, Mice, Proteins, Rabbits.

**10834-69**

**FOOD ADDITIVES PERMITTED IN FEED AND DRINKING WATER OF ANIMALS OR FOR THE TREATMENT OF FOOD PRODUCING ANIMALS. FOOD ADDITIVES PERMITTED IN FOOD FOR HUMAN CONSUMPTION. CHLORAMINONE CONSUMPTION.**

J K Kirk

*Fed Regist 34(83):7165-7167*

01 May 1969 L1.451

Dairy cattle, Estrus, Food additives, Regulations.

**10835-69**

**SUBSTRATES OXIDATION OF TRICARBOXYLIC ACID CYCLE IN HEPATOPANCREAS MITOCHONDRIA OF ASTACUS LEPTODACTYLUS (ESCHZ).**

L Obuchowicz

*Poznanskie Tow Przjalcial Nauk Bull Ser D Sci Biol (SER D,8):149-157* REF

1967 442.9 P872

Adenosine triphosphates, Animal physiology, Animal respiration, Crayfish, Enzymes, Mitochondria, Oxidation, Phosphorylation, Tricarboxylic acid cycle.

**10836-69**

**ALSO A METHOD FOR THE CONTROL OF SPARROWS. (GE)**

E R Scherner

*Prakt Schadlingsbekämpfer 20(8):114-115*

Aug 1968 421 P882

Bird control, Bird pests, Sparrows, Starvation.

**10837-69**

**PROCEEDINGS SEVENTIETH ANNUAL MEETING OF THE UNITED STATES LIVESTOCK SANITARY ASSOCIATION.**

*U S Livestock Sanit Ass Proc 70:618P*

10 Oct 1966 49.9 UN3R

Livestock, Livestock diseases, Sanitation, Symposia. Meeting held at Buffalo, n. y.

## DISEASES

**10838-69**

**SYMPOSIUM: RECENT ADVANCES IN VETERINARY RESEARCH.**

*Vet Rec 83(24):604-608*

14 Dec 1968 41.8 V641

Animal diseases, Research, Symposia, Veterinary medicine. Summaries of papers and discussions presented to the B.V.A. Congress in Swansea from Sept. 16-20, 1968.

**10839-69**

**VITAMIN E AND ANTIOXIDANTS - REQUIREMENTS AND FUNCTIONS IN CATTLE.**

C R Adams H La Roche N J Tley

*Pacific Northwest Anim Nutr Conf Offic Proc 85-94* REF

Nov 1967 SF95.P3

Animal nutrition, Antioxidants, Cattle, Deficiency diseases, Diet, Feed, Vitamin e.

**10840-69**

**REQUIREMENTS AND FUNCTIONS OF VITAMIN A IN RUMINANTS.**

C R Adams H La Roche N J Nutley

*Pacific Northwest Anim Nutr Conf Offic Proc 95-104* REF

Nov 1967 SF95.P3

## LIVESTOCK PROTECTION

10841-69

Animal nutrition, Antibiotics, Deficiency diseases, Diet, Feed, Hormones, Nitrates, Phosphorus, Proteins, Ruminants, Stress, Vitamin a.

10841-69

FELINE ANAPHYLAXIS: SOME OBSERVATIONS.

I D Aitken H B McCusker

*Vet Rec* 84(3):58-61 REF

18 Jan 1969 41.8 V641

Anaphylaxis, Animal diseases, Antigens, Cats, Freunds adjuvant, Hypodermic injections, Symptomatology.

10842-69

PREVENTION OF LITTERING IN ANIMALS WITH DEHYDROEPIANDROSTERONE 3-(2'-TETRAHYDROPYRANYL)ETHER. PATENT 3,428,733.

G O Allen

*Us Patent Office Offic Gaz* 859(3):938

18 Feb 1969 156.65 OF2

Chemistry, Ethyl ether, Livestock, Patents, Reproduction.

10843-69

FOLIC ACID IN HIGH FISH MEAL DIETS FOR CHICKS AND POULTS.

G H Arscott J A Harper W D McKeen

*Pacific Northwest Anim Nutr Conf Offic Proc* 1-6 Nov 1967 SF95. P3

Animal nutrition, Biological assay, Chicks, Diet, Feed, Fish meal, Folic acid, Proteins, Turkeys, Vitamins.

10844-69

THE STATES' ROLE IN SALMONELLA CONTROL.

W L Bendix

*U S Livestock Sanit Ass Proc* 70:465-468

10 Oct 1966 49.9 UN3R

Agricultural regulation, Animal diseases, Bacteria, Disease control, Salmonella.

10845-69

CONTINUOUS USE OF A LIVE VACCINE IN THE DRINKING WATER AGAINST FOWL CHOLERA INFECTION IN TURKEYS. (ABSTRACT).

B W Bierer T H Eleazer

*Poultry Sci* 47(5):1656

Sep 1968 47.8 AM33P

Bacterial diseases (animals), Drug therapy, Fowl cholera, *Pasteurella avicida*, Poultry diseases, Turkeys, Vaccines, Water. Abstract of paper presented at the 57th Annual Meeting of the Poultry Science Association.

10846-69

SOME DATA ON BIOENERGETICS OF THE LARVAE OF TRICHIINELLA SPIRALIS.

K Boczon

*Poznanskie Tow Przjociol Nauk Bull Ser D Sci Biol (SER D,8):165-170* REF

1967 442.9 P872

Biochemistry, Bioenergetics, Larvae, Metabolism, Mitochondria, Nematodes, Oxidation, Phosphorylation, Succinates, Tricarboxylic acid cycle, *Trichinella spiralis*.

10847-69

AN ELECTRON MICROSCOPIC STUDY OF EQUINE ABORTION VIRUS INFECTION IN HAMSTERS. (ABSTRACT).

C D Bostwick D M Scarbrough R K Boler J G

Brunson

*Fed Amer Soc Exp Biol Fed Proc* 27(2):664

Mar 1968 442.9 F31P

Abortion, Deoxyribonucleic acid, Electron microscopy, Endoplasmic reticulum, Golgi apparatus, Hamsters, Hepatitis, Infectious diseases, Liver, Viruses.

10848-69

DRUG WITHDRAWAL AS A TOOL IN COCIDIOSTAT FLOOR PEN TRAILS. (ABSTRACT).

R N Brewer W M Reid J Johnson

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*Poultry Sci* 47(5):1658

Sep 1968 47.8 AM33P

Buquinolate, Chickens, Coccidiosis, Drugs, Metilclopindol, Nicarbazin, Poultry diseases. Abstract of paper presented at the 57th Annual Meeting of the Poultry Science Association.

10849-69

EFFECTS OF DIETARY PROTEIN LEVEL ON ACUTE TOXICITY AND METABOLISM OF HEPTACHLOR IN THE LABORATORY RAT. (ABSTRACT).

T C Campbell R E Webb

*Fed Amer Soc Exp Biol Fed Proc* 27(2):551

Mar 1968 442.9 F31P

Animal nutrition, Blood, Casein, Heptachlor, Liver, Metabolism, Proteins, Rats, Toxicology.

10850-69

NEONATAL CANINE HERPESVIRUS INFECTION: A REVIEW OF PRESENT KNOWLEDGE.

H J C Cornwell N G Wright

*Vet Rec* 84(1):2-6 REF

04 Jan 1969 41.8 V641

Canine herpesvirus, Dogs, Epizootic diseases, Herpesviruses, Infectious diseases, Respiratory system, Tissue culture, Virology, Virus diseases (animals).

10851-69

THE CARRIER STATE OF ERYSIPELOTHRIX INSIDIOSA IN TURKEYS. (ABSTRACT).

R E Corstvet C H Holmberg

*Poultry Sci* 47(5):1662

Sep 1968 47.8 AM33P

Animal vectors, Bacterial diseases (animals), Bacterios, Erysipelothrins insidiosa, Immunity, Poultry diseases, Turkeys, Vaccines. Abstract of paper presented at the 57th Annual Meeting of the Poultry Science Association.

10852-69

MANGANESE SUPPLEMENTATION FOR COMMERCIAL EGG PRODUCTION. (ABSTRACT).

A C Cox S L Ballou

*Poultry Sci* 47(5):1664

Sep 1968 47.8 AM33P

Animal nutrition, Calcium, Chickens, Diet, Eggs, Food additives, Manganese, Productivity. Abstract of paper presented at the 57th Annual Meeting of the Poultry Science Association.

10853-69

RAM EPIDIDYMITIS VACCINATION.

G L Crenshaw B McGowan

*U S Livestock Sanit Ass Proc* 70:476-479

10 Oct 1966 49.9 UN3R

Bacterins, *Brucella abortus*, Epididymitis, Immunization, Livestock diseases, Microorganisms, Rams, Serological tests.

10854-69

AN ANIMAL TUMOR REGISTRY AS A SOURCE OF MORBIDITY INFORMATION.

C R Dorn

*U S Livestock Sanit Ass Proc* 70:443-454 REF

10 Oct 1966 49.9 UN3R

Animal diseases, Epidemiology, Information services, Neoplasms, Research.

10855-69

ETIOLOGY OF AVIAN OSTEOPETROSIS. (ABSTRACT).

R M Dougherty R H Conklin H S Di Stefano

*Fed Amer Soc Exp Biol Fed Proc* 27(2):681

Mar 1968 442.9 F31P

Antibodies, Avian leukosis complex, Chicks, Culture media, Eggs, Electron microscopy, Osteopetrosis, Poultry diseases, Rous sarcoma virus.

10856-69

NOTICE OF FILING OF PETITION FOR FOOD ADDITIVE NEQUINATE.

R E Duggan

*Fed Regist* 34(84):7252

02 May 1969 L1.451

Bacterial diseases (animals), Bacterioides, Chickens, Coccidiosis, Food additives, Regulations.

10857-69

FLUORESCENT ANTIBODY AS AN AID IN VIBRIO FETUS IDENTIFICATION.

J W Dunn M B Rhodes O D Grace M J Twiehaus

*U S Livestock Sanit Ass Proc* 70:139-144

10 Oct 1966 49.9 UN3R

Abortion, Cattle, Fluorescent antibody technic, Livestock diseases, Vibrio fetus.

10858-69

THE INACTIVATION OF GENUS MIYAGAWELLAE MICROORGANISMS WITH THE USE OF CHLORAMINE GROUP CHEMICALS. I. (JPRS 45275) TRANSL. 16943. Z Forsek A Nevjestic L Rukavina

SP

06 May 1968

Amines, Antiseptics, Microorganisms, Miyagawella group viruses, Viricides, Virus diseases (animals). Translation from *Veterinarski glasnik* (2):87-90, 1968 issued by JPRS.

10859-69

A HEMAGGLUTINATION-INHIBITION TEST FOR PARAINFLUENZA 3 VIRUS ANTIBODIES.

G H Frank

*U S Livestock Sanit Ass Proc* 70:59-66 REF

10 Oct 1966 49.9 UN3R

Antibodies, Cattle, Heat, Hemagglutination-inhibition test, Immunochemistry, Kaolin, Parainfluenza 3 virus, Serological tests, Virus diseases (animals).

10860-69

ABSENCE OF INTERACTION BETWEEN CYCLOPROPENOID FATTY ACIDS AND AFLATOXIN IN RATS. (ABSTRACT).

L Friedman H Mohr

*Fed Amer Soc Exp Biol Fed Proc* 27(2):551

Mar 1968 442.9 F31P

Aflatoxin, Biochemistry, Fatty acids, Lipids, Neoplasms, Nucleic acids, Proteins, Rats.

10861-69

NUMBER OF SALMONELLA IN UNPASTEURIZED LIQUID EGG. (ABSTRACT).

J A Garibaldi H Lineweaver K Ijichi

*Poultry Sci* 47(5):1673

Sep 1968 47.8 AM33P

Chickens, Eggs, Pasteurization, Poultry diseases, Salmonella. Abstract of paper presented at the 57th Annual Meeting of the Poultry Science Association.

10862-69

RESEARCH ON DISEASES OF NEONATAL CALVES.

N L Garlick

*U S Livestock Sanit Ass Proc* 70:154-161

10 Oct 1966 49.9 UN3R

Cattle, Enteritis, Livestock diseases, Research.

10863-69

ANALYSIS OF THE PRODUCTION OF INTERFERON IN CELL CULTURE WITH CHICK EMBRYO FIBROBLASTS UNDER THE INFLUENCE OF LIVING OR INACTIVATED NEWCASTLE DISEASE VIRUS. COMPARISON WITH PRODUCTION IN THE EGG. (FR)

A German J Panouse-Perrin A M Quero

*Acad Sci Compt Rend Ser D Sci Nat* 265(3, 2ND SEMESTER):295-298

17 Jul 1967 505 P21

Chick embryos, Eggs, Interferon, Newcastle disease virus, Tissue culture, Virus diseases (animals).

10864-69

THE EFFECT OF THE RIMINO PHENAZENE B663 (G30320) ON PRECLINICAL M. JOHNEI INFECTIONS IN SHEEP.

N J L Gilmour

*Brit Vet J* 124(11):492-497

Nov 1968 41.8 V643

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10889-69

Clofazimine, Dosage, Drug therapy, Infectious diseases, Intestines, Lesions, Livestock diseases, Mycobacterium johni, Sheep, Tables (data), Tuberulin. German, French, and Spanish summaries.

**10865-69**  
**AGE AND SENSITIVITY OF TROUT TO AFLATOXIN B1. (ABSTRACT).**  
 J E Halver L M Ashley R R Smith G N Wogan  
*Fed Amer Soc Exp Biol Fed Proc* 27(2):552  
 Mar 1968 442.9 F31P  
 Aflatoxin, Hepatoma, Liver, Poisoning, Toxicology, Trout.

**10866-69**  
**MATERNAL-FETAL SULFUR UTILIZATION IN THE BOVINE. (ABSTRACT).**  
 S L Hansard A S Mohammed  
*Fed Amer Soc Exp Biol Fed Proc* 22(2):729  
 Mar 1968 442.9 F31P  
 Cattle, Excreta, Fetus, Metabolism, Placenta, Radioactive tracers, Sulfur.

**10867-69**  
**ANGIOSTRONGYLUS CANTONENSIS: PROOF OF DIRECT TRANSMISSION WITH ITS EPIDEMIOLOGICAL IMPLICATIONS.**  
 B Hcynman B Lim  
*Science* 158(3804):1057-1058  
 24 Nov 1967 470 SC12  
 Angiostrongylus cantonensis, Disease transmission, Epidemiology, Rats, Slugs.

**10868-69**  
**HOST SUSCEPTIBILITY AND THE EFFECT OF AGING, FREEZING, HEAT AND CHEMICALS ON SPORES OF MYXOSOMA CEREBRALIS.**  
 G L Hoffman R E Putz  
*Progr Fish-cult* 31(1):35-37  
 Jan 1969 157.5 P94  
 Aging, Chemicals, Fish, Fungi, Fungus diseases (animals), Spores, Temperature.

**10869-69**  
**ULCERATIVE KERATITIS IN THE CAT.**  
 D R Howard  
*Southwest Vet* 22(1,FALL):47-48  
 1968 41.8 S082  
 Antibiotics, Cats, Drug therapy, Eyes, Infectious diseases, Keratitis, Ulcers.

**10870-69**  
**ESOPHAGEAL--GASTRIC LESIONS IN THE PIG. (GE)**  
 O Hunziker J Nicolet  
*Sweiz Arch Tierheilk* 110(6):302-308 REF  
 Jun 1968 41.8 SCH9  
 Boars, Candida albicans, Candida krusei, Candida pseudomyelia, Candida pseudotropicalis, Candida tropicalis, Lesions, Livestock diseases, Mycosis, Stomach, Swine, Ulcers. English, French and Italian summary.

**10871-69**  
**BIOTIN IN PRACTICAL TURKEY RATIONS.**  
 L S Jensen  
*Pacific Northwest Anim Nutr Conf Offic Proc* 7-12  
 Nov 1967 SF95.P3  
 Animal nutrition, Biotin, Deficiency diseases, Diet, Feed, Turkeys, Vitamins.

**10872-69**  
**THE DIMORPHISM OF GERMINATION OF SPORES OF USTILAGO MAYDIS (DC) CDA ON THE LEAVES OF ZEA MAYS L. (RU)**  
 I V Karatygin  
*Akad Nauk Sssr Dokl* 183(6):1458-1460 REF  
 1968 511 P444A  
 Corn, Fungus diseases (plants), Germination (spores), Plant genetics, Polymorphism, Ustilago maydis.

**10873-69**  
**THE NUCLEIC ACID TYPE AND EFFECT OF PH AND HYDROXYLAMINE ON CANINE DISTEMPER VIRUS.**  
 R C Kims R H Bussell  
*Arch Gesamte Virusforsch* 24(4):387-395 REF

Sep 1968 448.3 AR23  
 Canine distemper virus, Hydrogen-ion concentration, Hydroxylamine, Morphology, Ribonucleic acid, Virus diseases (animals).

**10874-69**  
**NOTICE OF WITHDRAWAL OF PETITION FOR FOOD ADDITIVE ESTRADIOL MONOPALMITATE.**  
 J K Kirk  
*Fed Regist* 34(86):7340  
 06 May 1969 L1.451  
 Animal nutrition, Estradiol, Food additives, Hypodermic injections, Palmitic acid compounds, Poultry.

**10875-69**  
**A NOTE ON AN OUTBREAK OF RABIES IN HORSES.**  
 S Kumar R M Sharma T S Gulrajani  
*Cur Sci* 38(2):43-44  
 20 Jan 1969 475 SCI23  
 Animal diseases, Epidemiology, Horses, Rabies, Symptomatology.

**10876-69**  
**THE EFFECT OF SUPPLEMENTS OF PROTEOLYTIC PREPARATIONS ON THE GROWTH OF SUCKLING PIGS. (CZ)**  
 N Lcitnerova  
*Brno Acta Univ Agric Fac Agron* 15(4):619-624  
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 1967 S13.B7  
 Animal nutrition, Aspergillus oryzae, Baby pigs, Casein, Feed additives, Proteins. English, German and Russian summaries.

**10877-69**  
**PANCREATIC DORNASE. DRUGS FOR VETERINARY USE; DRUG EFFICACY STUDY IMPLEMENTATION.**  
 H L Ley  
*Fed Regist* 34(34,PT 1):2366  
 19 Feb 1969 L1.451  
 Animal diseases, Cattle, Drugs, Enzymes, Pancreas, Veterinary medicine.

**10878-69**  
**UNCOUPLING EFFECT OF CYTOPLASMIC FRACTION OF TRICHINELLA SPIRALIS LARVAE ON BIOENERGETICS OF RAT MUSCLE MITOCHONDRIA.**  
 J W Michejda K Boczon  
*Poznanskie Tow Przyjaciol Nauk Bull Ser D Sci Biol (SER D,8):159-164*  
 1967 442.9 P872  
 Animal diseases, Biochemistry, Bioenergetics, Cytoplasm, Glutamate, Larvae, Mitochondria, Nematodes, Oxidation, Phosphorylation, Rats, Succinates, Tricarboxylic acid cycle, Trichinella spiralis, Trichinosis.

**10879-69**  
**EFFECTS OF DIETARY PROTEIN SOURCE UPON NUTRIENT BALANCE IN THE BABY PIG. (ABSTRACT).**  
 E R Miller N Eshiet D E Ullrey B L Bradley P K Ku  
*Fed Amer Soc Exp Biol Fed Proc* 22(2):726  
 Mar 1968 442.9 F31P  
 Animal nutrition, Baby pigs, Blood composition, Casein, Egg whites, Excreta, Minerals, Nitrogen, Proteins, Soybeans.

**10880-69**  
**QUELEA CONTROL AND RESEARCH UNIT.**  
 P S T Miric  
*Kenya Dep Agr Ann Rep* 1:95  
 1966 24 AF8A  
 Aerial spraying, Birds, Chemical control (pests), Fenitrothion, Spraying, Wildlife management.

**10881-69**  
**PREVENTION OF LEG DEFECTS IN ZINC-DEFICIENT CHICKS BY ANTIARTHRITIC AGENTS. (ABSTRACT).**  
 F H Niclson M L Sundc W G Hockstra  
*Fed Amer Soc Exp Biol Fed Proc* 27(2):484  
 Mar 1968 442.9 F31P

Animal abnormalities, Chicks, Deficiency diseases, Drug therapy, Histamine, Legs, Proteins, Soybeans, Zinc.

**10882-69**  
**TUBERCULOUS SPONDYLITIS IN A HORSE.**  
 S W Nielsen F R Spratling  
*Brit Vet J* 124(11):503-508  
 Nov 1968 41.8 V643  
 Alkaline phosphatase, Globulins, Horses, Illustrations, Livestock diseases, Serum, Spondylitis, Tuberculosis. German, French, and Spanish summaries.

**10883-69**  
**CLINICAL AND PATHOLOGICAL ASPECTS OF PULMONARY ADENOMATOSIS IN SHEEP.**  
 D I Nisbet J M K Mackay W Smith  
*Vet Rec* 83(24):605  
 14 Dec 1968 41.8 V641  
 Diagnosis, Laboratory animals, Livestock diseases, Pulmonary adenomatosis, Sheep, Viruses. Summary only: British Veterinary Assoc. Congress, Sept. 16-20, 1968.

**10884-69**  
**EXPERIENCES WITH MYCOPLASMA SYNOVIA TEST PROGRAM. (ABSTRACT).**  
 N O Olson H Chute R F Cuozzo E Bryant  
*Poultry Sci* 47(5):1704  
 Sep 1968 47.8 AM33P  
 Agglutination test, Chickens, Mycoplasma synoviae, Poultry diseases, Surveys. Abstract of paper presented at the 57th Annual Meeting of the Poultry Science Association.

**10885-69**  
**GROWTH OF ALEUTIAN DISEASE VIRUS IN MINK. (ABSTRACT).**  
 D D Porter A E Larsen H G Porter  
*Fed Amer Soc Exp Biol Fed Proc* 27(2):664  
 Mar 1968 442.9 F31P  
 Aleutian disease, Blood serum, Infectious diseases, Liver, Lymph nodes, Minks, Neoplasms, Spleen, Viruses.

**10886-69**  
**THE ACTIVITY OF PROTEINASE IN POTATO TISSUES Affected BY PECTOBACTERIUM PHYTOPHTHORUM. (RU)**  
 I I Ragozina Iu I Shneider D V Lipsits  
*Akad Nauk Sssr Dokl* 184(1):242-245 REF  
 1969 511 P444A  
 Fungus diseases (plants), Plant physiology, Potatoes, Proteinas.

**10887-69**  
**AVIAN MYCOPLASMA SEROTYPES.**  
 D H Roberts  
*Vet Rec* 83(24):611  
 14 Dec 1968 41.8 V641  
 Chickens, Infectious diseases, Mycoplasma gallinarum, Mycoplasma gallisepticum, Poultry diseases, Respiratory diseases, Serological tests, Sinusitis, Turkeys. Summary only: British Veterinary Assoc. Congress, Sept. 16-20, 1968.

**10888-69**  
**EARLY STAGES OF AFLATOXIN CARCINOGENESIS IN NORMAL AND LIPOTROPE-DEFICIENT RATS. (ABSTRACT).**  
 A E Rogers P M Newberne  
*Fed Amer Soc Exp Biol Fed Proc* 27(2):607  
 Mar 1968 442.9 F31P  
 Aflatoxin, Carcinogens, Deficiency diseases, Fats, Liver, Metabolism, Mitosis, Neoplasms, Radioactive tracers, Rats.

**10889-69**  
**THE EFFECT OF LOW COPPER ON COLLAGEN FORMATION IN THE CHICK. (ABSTRACT).**  
 R B Rucker J C Rogler H E Parker  
*Fed Amer Soc Exp Biol Fed Proc* 27(2):481  
 Mar 1968 442.9 F31P  
 Aldehydes, Amines, Animal nutrition, Animal physiology, Bones, Chicks, Collagen, Copper, Deficiency diseases, Hydroxyproline, Liver.

## LIVESTOCK PROTECTION

10890-69

AN IMPROVEMENT OF THE INDIRECT COONS' TEST FOR DETECTING ANTIBODIES AGAINST INTRAERYTHROCYTIC PROTOZOA, WITH SPECIAL REFERENCE TO THE GENUS THEILERIA. (GE)

R Schindler D Mehlitz

*Z Tropenmed Parasitol* 19(4):430-441 REF

Dec 1968 448.8 Z37

Anaplasma, Antibodies, Babesia, Cattle, Erythrocytes, Fluorescence, Livestock diseases, Serological tests, Serum, Theileria. English summary.

10891-69

REPRODUCTION IN DOGS CHRONICALLY FED METHYL TESTOSTERONE (MT) OR 6-CHLORO-17-ACETOXY PROGESTERONE (CAP) WITH DIELDRIN. (ABSTRACT).

B S Shane H O Dunn L Krook W J Visck

*Fed Amer Soc Exp Biol Fed Proc* 27(2):469

Mar 1968 442.9 F31P

Animal abnormalities, Dieldrin, Dogs, Methyl testosterone, Progesterone compounds, Reproduction.

10892-69

THE REGULATORY AND RESEARCH EFFORTS IN RESPONSE TO THE OCCURRENCE OF EQUINE INFECTIOUS ANEMIA AT RACETRACKS IN 1965-1966.

W L Sippel

*U S Livestock Sanit Ass Proc* 70:238-244

10 Oct 1966 49.9 UN3R

Agricultural regulation, Equine infectious anemia, Race horses, Research, Time, Virus diseases (animals).

10893-69

PREVALENCE OF TRICHINELLOSIS AMONG WILD AND DOMESTIC ANIMALS IN THE NENETS DISTRICT. (RUS)

E V Sorochenko

*Med Parazitol Parazitarn Bolezni*

37(3, MAY/JUN):366-367

1968 448.8 M469

Epidemiology, Infectious diseases, Trichinoscopes, Trichinosis. English summary

10894-69

SALMONELLOSIS.

J H Steele

*U S Livestock Sanit Ass Proc* 70:457-464 REF

10 Oct 1966 49.9 UN3R

Animal diseases, Bacteria, Human diseases, *Salmonella abortioequina*, *Salmonella cubana*, *Salmonella gallinarum*, *Salmonella pullorum*, *Salmonella typhimurium*, *Salmonellosis*.

10895-69

THE EFFICIENCY OF ZINC BACITRACIN IN THE FEEDING RATION FOR PIGLETS. (CZ)

A Sterba J Havlicek

*Brno Acta Univ Agric Fac Agron* 15(4):659-664

1967 S13.B7

Animal nutrition, Baby pigs, Feed additives, Tetracycline, Zinc bacitracin. English, German and Russian summaries.

10896-69

DIET CONSUMPTION, BODYWEIGHT CHANGE, ESTRUS INHIBITION AND REPRODUCTIVE PERFORMANCE IN GILTS FED A DITHIOCARBAMOYLHYDRAZINE (ICI 33828).

F W Stratman N L First

*J Anim Sci* 28(3):353-358 REF

Mar 1969 49 J82

Animal physiology, Diet, Estrus, Hormones, Methallihure, Pregnancy, Reproduction, Swine.

10897-69

PROPHYLACTIC EFFICACY OF NIFURSOL AGAINST HISTOMONIASIS IN TURKEYS 4-9, 8-13, AND 13-18 WEEKS OF AGE. (ABSTRACT).

T W Sullivan O D Grace

*Poultry Sci* 47(5):1724

Sep 1968 47.8 AM33P

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Blackhead, Dosage, Drug therapy, *Heterakis galloinæ*, *Histomonas meleagridis*, Mortality, Nifursol, Poultry diseases, Turkeys. Abstract of paper presented at the 57th Annual Meeting of the Poultry Science Association.

10898-69

COMPARATIVE PROTECTION TESTS OF DIFFERENT COMMERCIAL ANTI-HOG CHOLERA SERUMS AGAINST REGULAR AND VARIANT HOG CHOLERA VIRUSES.

J P Torrey M R Zinober

*U S Livestock Sanit Ass Proc* 70:288-294

10 Oct 1966 49.9 UN3R

Hog cholera vaccines, Hog cholera virus, Livestock diseases, Serum, Swine, Virus diseases (animals).

10899-69

INTERFERENCE BY TRANSMISSIBLE GASTROENTERITIS IN THE IMMUNIZATION OF PIGS AGAINST HOG CHOLERA WITH CRYSTAL VIOLET GLYCEROL VACCINE.

J P Torrey

*U S Livestock Sanit Ass Proc* 70:358-368

10 Oct 1966 49.9 UN3R

Crystal violet vaccine, Gastroenteritis, Hog cholera, Hog cholera vaccines, Immunization, Interference phenomenon, Livestock diseases, Swine, Virus diseases (animals).

10900-69

BIBLIOGRAPHY OF EQUINE INFECTIOUS ANEMIA.

D C Tudor

*U S Livestock Sanit Ass Proc* 70:261-283 REF

10 Oct 1966 49.9 UN3R

Bibliography, Equine infectious anemia, Horses, Virus diseases (animals).

10901-69

TRANSMISSIBLE VENEREAL TUMOUR IN A BOXER BITCH.

J B Tutt

*Vet Rec* 84(1):13-14

04 Jan 1969 41.8 V641

Animal diseases, Boxer dogs, Diagnosis, Disease transmission, Dogs, Infectious diseases, Neoplasms, Secretions, Venereal diseases.

10902-69

EFFECT OF ADDED ASCORBIC ACID ON COPPER DEFICIENCY IN MINIATURE SWINE. (ABSTRACT).

R W Voelker W W Carlton

*Fed Amer Soc Exp Biol Fed Proc* 27(2):481

Mar 1968 442.9 F31P

Anemia, Animal nutrition, Ascorbic acid, Copper, Deficiency diseases, Dried milk, Swine.

10903-69

MUSCULAR DYSTROPHY IN THE CORNISH CHICKEN. (ABSTRACT).

W D Wagner R A Peterson

*Poultry Sci* 47(5):1729-1730

Sep 1968 47.8 AM33P

Muscular dystrophy, Poultry, Poultry diseases, Symptomatology. Abstract of paper presented at the 57th Annual Meeting of the Poultry Science Association.

10904-69

THE CAPILLARY TUBE AGGLUTINATION TEST IN THE CONTROL OF ANAPLASMOSIS.

C J Welter

*U S Livestock Sanit Ass Proc* 70:79-84 REF

10 Oct 1966 49.9 UN3R

Agglutination test, *Anaplasma marginale*, Anaplasmosis, Capillaries, Cattle, Drug therapy, Immunization, Livestock diseases, Serological tests, Tetracycline.

10905-69

MAGNESIUM DEFICIENCY AND TISSUE IONS. (ABSTRACT).

D L Woodward D J Reed

*Fed Amer Soc Exp Biol Fed Proc* 27(2):752

Mar 1968 442.9 F31P

Blood plasma, Brain, Calcium, Deficiency diseases, Ions, Magnesium, Minerals, Muscles, Rabbits, Tissues.

10906-69

POSSIBLE ROUTE OF TOXICITY OF RAT PUPS INJECTED WITH CYCASIN. (ABSTRACT).

M G Yang O Mickelsen V L Sanger

*Fed Amer Soc Exp Biol Fed Proc* 27(2):552

Mar 1968 442.9 F31P

Cells, Cycasin, Injections, Liver, Metabolism, Rats, Ribosomes, Toxicology.

## ARTHROPODS

10907-69

CHEMICAL CONTROL OF THE NORTHERN FOWL MITE ON THE LAYING HEN. (ABSTRACT).

E L Bramhall C B Nelson W V Miller H G Simkover

*Poultry Sci* 47(5):1658

Sep 1968 47.8 AM33P

Chemical control (insects), Chickens, Chloro-1-(2,4,5-trichlorophenyl)vinyl dimethyl phosphate, 2-, Dichlorvos, *Ornithonyssus sylviarum*, Parasitic insects. Abstract of paper presented at the 57th Annual Meeting of the Poultry Science Association.

10908-69

CONTROLLING LICE IN BEEF HERDS--IS IT ECONOMIC.

R E Freer R J Gahan

*Agri Gaz New S Wales* 79(5):308-309

May 1968 23 N472

Anoplura, Beef cattle, Cattle, Chemical control (insects), *Haematopinus eryسترnum*, Nucidol.

A significant increase of weight gain occurred in cattle sprayed twice with nucidol to protect them from lice.

10909-69

1969 SUGGESTED INSECTICIDE GUIDE. INSECT CONTROL FOR LIVESTOCK AND LIVESTOCK BARNS.

*Ill Univ Ext Circ* (898):4P

Dec 1968 275.29 IL62C

Accident prevention, Barns, Carharmates, Chemical control (insects), Chlorinated hydrocarbons, Dosage, Insect pests, Insecticide application, Insecticides, Livestock, Organophosphorus compounds.

Limitations for 18 suggested insecticides applied to livestock or in livestock barns are given.

10910-69

TICK-BORNE DISEASES OF CATTLE.

J C MacKellar J Donnelly

*Vet Rec* 83(24):609

14 Dec 1968 41.8 V641

*Babesia divergens*, Cattle, Insect vectors, *Ixodes ricinus*, Ixodides, Livestock diseases, *Rickettsia phagocytophila*. Summary only: British Veterinary Assoc. Congress, Sept. 16-20, 1968.

## PARASITES

10911-69

PRELIMINARY OBSERVATIONS ON THE CONTROL OF *FASCIOLA HEPATICA* WITH THE MOLLUSCICIDE N-TRITYL-MORPHOLINE.

R J Cawdry N O Crossland M S Bennett

*Vet Rec* 84(8):182-184 REF

22 Feb 1969 41.8 V641

*Fasciola hepatica*, Livestock diseases, Molluscicides, Parasitism, Pest control, Sheep, Trityl-morpholine, N-.

## BIBLIOGRAPHY

## RESIDUES

10934-69

10912-69  
OBSERVATIONS ON THE EFFECT IN MICE OF CONCURRENT INFECTIONS WITH MIGRATORY ASCARIS COLUMNARIS LARVAE AND CERTAIN NEUROTROPIC ARBOVIRUSES.

G M Clark C B Philip L Fadness  
*Folia Parasitol* 16(1):67-73 REF

1969 436.8 C33

Arboviruses, Ascaris, California encephalitis, Central nervous system, Colorado tick fever, Eastern equine encephalomyelitis, Epizootic diseases, Infectious diseases, Mice, Mortality.

10913-69

INDEX-CATALOGUE OF MEDICAL AND VETERINARY ZOOLOGY. SUBJECTS: TREMATODA AND TREMATODE DISEASES. PART 10: CHECKLIST OF GENERIC, SPECIFIC, AND SUBSPECIFIC NAMES, N-Z.

M A Doss

620P

Dec 1968 A241.73 AG3

Animal diseases, Catalogs, Trematoda, Veterinary medicine, Zoology.

10914-69

PRECIPITINS IN TOXOCARA CANIS INFECTIONS IN RABBITS.

S T Fernando

*Ceylon Vet J* 16(1/2, MAR-JUN):11-15

1968 41.8 C33

Antigens, Diagnosis, Guinea pigs, Helminths, Immunization, Precipitin test, Rabbits, Serological tests, Serum, Toxocara canis.

10915-69

ON THE MEANING OF TRICHOSTRONGYLID EGG COUNTS IN CATTLE.

J F Michel

*Vet Rec* 83(24):604

14 Dec 1968 41.8 V641

Cattle, Gastroenteritis, Livestock diseases, Nematodes, Ostertagia ostertagi, Parasitism, Population, Trichostrongylosis. Summary only: British Veterinary Assoc. Congress, Sept. 16-20, 1968.

10916-69

RECENT ADVANCES IN KNOWLEDGE OF PATHOGENESIS AND TREATMENT OF FASCIOLIASIS.

K B Sinclair

*Vet Rec* 83(24):609

14 Dec 1968 41.8 V641

Anthelmintics, Blood, Carbon tetrachloride, Cattle, Fasciola hepatica, Fascioliasis, Liver, Oxylozanide, Parasitism, Sheep, Swine. Summary only: British Veterinary Assoc. Congress, Sept. 16-20, 1968.

10917-69

ECOLOGICAL CONDITIONS FOR OCCURRENCE OF CILIA IN INTESTINES OF NE-MATODES.

I Zmoray A Gutteckova

*Biologia (bratislava)* 24(2):97-112 REF

1969 442.8 B5265

Ecology, Electron microscopy, Histology, Intestines, Nematode morphology, Soil microorganisms.

## COMMODITY PROTECTION

### STORAGE DISEASES

10918-69

ON THE WAYS OF INFLUENCE PRODUCED BY THE ENZYMES OF EURYGASTER INTEGRICEPS PUT. ON THE CARYOPSIS OF WHEAT. (RU)

N A Vilkova I D Shapiro

*Akad Nauk Sssr Dokl* 183(6):1456-1457 REF

1968 511 P444A

### ARTHROPODS

10919-69  
ENTOMOLOGY.

P S T Mirie  
*Kenya Dep Agr Ann Rep* 1:40-42

1966 24 AF8A

Biological control (insects), Entomology, Insect pests, Stored products.

### MICROBIAL CONTAMINATION

10920-69  
MICROBIOLOGICAL DECONTAMINATION OF AFLATOXIN-CONTAMINATED EDIBLES.

PATENT 3,428,458.  
A Ciegler E B Lillehoj  
*Us Patent Office Offic Gaz* 859(3):889

18 Feb 1969 156.65 OF2

Aflatoxin, Chemistry, Food, Food contamination, Microbiology, Patents.

### ENVIRONMENTAL CONTAMINATION

10921-69  
THE PERSISTENCE OF SIMAZINE IN SOIL. (ABSTRACT).

J F Ahrens  
*Weed Soc Amer Abstr* 1967 MEETING:75-76

1967 241 W41

Herbicide residues, Mulches, Plastics, Simazine, Soil contamination.

10922-69  
MOVEMENT AND PERSISTENCE OF METHANEARONATES IN SOIL. (ABSTRACT).

R Dickens A E Hictbold  
*Weed Soc Amer Abstr* 1967 MEETING:77-78

1967 241 W41

Diffusion, Herbicide residues, Hydrogen-ion concentration, Methancarsonic acid compounds, Soil adsorption, Soil chemistry, Soil contamination.

10923-69  
CHEMICAL VS. MICROBIAL DEGRADATION OF AMITROLE IN SOIL. (ABSTRACT).

D D Kaufman  
*Weed Soc Amer Abstr* 1967 MEETING:78-79

1967 241 W41

Amitrole, Biochemistry, Chemical reactions, Decomposition, Microbiology, Soil microorganisms.

10924-69  
DEGRADATION OF INSECTICIDES BY A SOIL FUNGUS, TRICHODERMA VIRIDE.

F Matsumura G M Boush  
*J Econ Entomol* 61(3):610-612

Jun 1968 421 J822

Biochemistry, Carbamates, Chlorinated hydrocarbons, Decomposition, Insecticides, Organophosphorus compounds, Soil fungi, Soil sanitation.

10925-69  
FARMERS LUNG.

H D S Morgan  
*Vet Rec* 83(24):633

14 Dec 1968 41.8 V641

Antibodies, Dust (soil), Farmer's lung, Grasses, Hay, Human diseases, Micropolyspora facni, Mycosis, Occupational diseases. Summary only: British Veterinary Assoc. Congress, Sept. 16-20, 1968.

10926-69

POLLUTIONAL ASPECTS OF PESTICIDES IN NATURAL STREAMS.

C W Randall

*Amer Water Resources Ass Bull* 3(3):47-53 REF

Sep 1967 292.9 AM34

Chlorinated hydrocarbons, Legislation, Pest control, Pesticides, Streams, Water pollution.

10927-69

METABOLISM OF MONOSODIUM METHANE ARSONIC ACID BY SOIL MICROORGANISMS. (ABSTRACT).

D W VonEndt P C Kearney D D Kaufman

*Weed Soc Amer Abstr* 1967 MEETING:78

1967 241 W41

Arsenic compounds, Chromatography, Herbicides, Metabolism, Monosodium acid methane arsonate, Soil microorganisms.

## RESIDUES

10928-69

PESTICIDE RESIDUES IN HUMAN TISSUE.

*Dublin Foras Taluntais Plant Sci Crop Husb* 17

1967 103 D852

Chlorinated hydrocarbons, Humans, Pesticide residues, Tissues.

10929-69

THE EFFECTS OF ACCUMULATED FLUORIDE ON YIELDS AND FRUIT QUALITY OF 'WASHINGTON' NAVEL ORANGES.

R F Brewer M J Garber F B Guillmet F H

Sutherland

*Amer Soc Hortic Sci Proc* 91:150-156 REF

1967 81 SO12

Crop yields, Hydrofluoric acid, Oranges, Plant physiology, Quality control, Residues, Sodium chloride, Sodium fluoride, Spraying.

10930-69

NOTICE OF FILING OF PETITION REGARDING PESTICIDE CHEMICALS.

R E Duggan

*Fed Regist* 34(66):6261

08 Apr 1969 L1.451

Eggs, Fenthion, Insecticide residues, Metabolites, Milk, Poultry, Tolerances.

10931-69

NOTICE OF FILING OF PETITION REGARDING PESTICIDE CHEMICALS.

R E Duggan

*Fed Regist* 34(83):7179-7180

01 May 1969 L1.451

Alfalfa, Carbonates, Fruit, Fungicide residues, Insecticide residues, Squash, Tolerances, Walnuts.

10932-69

2-ETHYLAMINO-4-ISOPROPYLAMINO-6-METHYLTHIO-S-TRIAZINE. NOTICE OF ESTABLISHMENT OF TEMPORARY TOLERANCE.

R E Duggan

*Fed Regist* 34(82):7092

30 Apr 1969 L1.451

Corn, Herbicide residues, Tolerances, Triazine.

10933-69

NOTICE OF FILING OF PETITION REGARDING PESTICIDE CHEMICALS.

R E Duggan

*Fed Regist* 34(17):1274

25 Jan 1969 L1.451

Chemicals, Herbicides, Metabolites, Nitrophenyl-2-nitro-4-(trifluoromethyl)phenylether, p-, Pesticide residues, Soybeans.

10934-69

PESTICIDE RESIDUES IN WILDLIFE.

J F Eades

*Dublin Foras Taluntais Plant Sci Crop Husb* 18

1967 103 D852

## RESIDUES

10935-69

Birds, Chlorinated hydrocarbons, Eggs, Fish, Mercury compounds, Pesticide residues, Tissues, Wildlife.

10935-69

OECD STUDY OF ORGANOCHLORINE PESTICIDE RESIDUES IN TERRESTRIAL AND AQUATIC WILDLIFE.

J F Eades

*Dublin Foras Taluntais Plant Sci Crop Hush* 20-21  
1967 103 D852

Aquatic birds, Chlorinated hydrocarbons, Mussels, Pesticide residues, Pesticides, Wildlife. Residues of 10 pesticides were established.

10936-69

ESTIMATION OF DICHLOFLUANID RESIDUES.

J F Eades

*Dublin Foras Taluntais Plant Sci Crop Hush* 17  
1967 103 D852

Botrytis, Fungicides, Fungus diseases (plants), Onions, Pesticide residues, Strawberries.

10937-69

THE USE OF TETRAHYMENA PYRIFORMIS EHREN. FOR THE DETECTION OF RESIDUES OF ORGANIC FUNGICIDES. (IT)

S Foschi E Olmo

*Giorante Fitopatol* 119-127

26 Mar 1967 SB599.G5

Captan, Chlorinated hydrocarbons, Dosage, Folpet, Fungicides, Hydroxytriphenyltin, Organic compounds, Pesticide residues, Protozoa, Statistical analysis, Tables (data), Tetrahymena pyriformis, Triphenyltin acetate.

10938-69

RATES OF ACCUMULATION OF C-14-DIELDRIN RESIDUES IN TISSUES OF GOLDFISH EXPOSED TO A SINGLE SUBLETHAL DOSE OF C-14-ALDRIN.

J H Gakstatter

*Can Fish Res Board J* 25(9):1797-1801

Sep 1968 442.9 C16J

Aldrin, Carassius, Dieldrin, Insecticide residues, Metabolism, Radioactive tracers.

After goldfish were exposed for eight hours to 0.05 ppm of C-14 aldrin, C-14 dieldrin was detected in various tissues. The conversion of C-14 aldrin to C-14 dieldrin increased with time until at thirty-two days 93.9 per cent of the residues recovered from the tissues studied except visceral fat were dieldrin.

10939-69

THE EFFECT OF SOME INSECTICIDES ON THE ANIMAL ORGANISM. A CONTRIBUTION TO THE STUDY OF THE HYGIENIC-SANITARY PROBLEM OF THE RESIDUES OF THE ORGANOPHOSPHORUS INSECTICIDES. (IT)

A Giachetti C Grasso

*Giorante Fitopatol* 23-28 REF

26 Mar 1967 SB599.G5

Animal physiology, Animals, Biochemistry, Hygiene, Insecticide residues, Laboratory animals, Organophosphorus compounds, Parathion, Testing.

10940-69

ANTIBIOTICS: TRANSFER OF RESISTANCE, EFFECTIVENESS, AND CURRENT USAGE.

W G Huber

*U S Livestock Sanit Ass Proc* 70:427-433 REF

10 Oct 1966 49.9 UN3R

Antibiotics, Drugs, Humans, Immunity, Residues, Veterinary medicine.

10941-69

DURSBAN INSECTICIDE PERSISTENCE IN GRASS AND CORN FORAGE.

D B Leuck M C Bowman E W Beck

*J Econ Entomol* 61(3):689-690

Jun 1968 421 J822

Corn, Diethyl O-(3,5,6-trichloro-2-pyridyl) phosphorothioate, O, f, Food contamination, Forage plants, Grasses, Insecticide application, Insecticide residues, Insecticides, Organophosphorus compounds, Silage, Spraying.

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10942-69

THE EFFECT OF CHLOROPHOS UPON THE CONTENT OF CERTAIN VITAMINS IN THE TISSUE OF RATS. (RUS)

V M Nizhegorodov I T Kalinin

*Vop Pitani* 27(4 JUL-AUG):80-81

1968 389.8 V89

Insecticide residues, Rats, Tissues, Trichlorfon, Vitamins.

10943-69

ATRAZINE DRIFT STUDIES WITH HORTICULTURAL CROPS. (ABSTRACT).

R R Romanowski M K Wono

*Weed Soc Amer Abstr* 1967 MEETING:18-19

1967 241 W41

Atrazine, Beans, Cucumbers, Herbicide residues, Plant injuries, Spraying, Vegetables, Wind.

10944-69

PERSISTANCE OF PYRAZON IN SUGAR BEETS IN MICHIGAN. (ABSTRACT).

D T Smith W F Meggitt

*Weed Soc Amer Abstr* 1967 MEETING:74-75

1967 241 W41

Chemical control (wcds), Food contamination, Herbicide residues, Plant biochemistry, Pyrazon, Soil sanitation, Sugar beets.

## TOXICOLOGY

10945-69

THE ISOLATION OF THE TOXIC PRINCIPLE OF DAPHNE.

W J Balkenhol

*Diss Abstr Sect B* 29(3):929B

Sep 1968 Z5055.U49D53

Daphne, Ornamental plants, Poisonous plants, Thymelaeaceae, Toxicology.

10946-69

A STUDY OF THE TOXICITY OF AN ORGANOPHOSPHORUS INSECTICIDE AND ITS RESIDUES. (IT)

A R Canniello

*Giorante Fitopatol* 81-85

26 Mar 1967 SB599.G5

Dimethoate, Insecticide residues, Insecticides, Organophosphorus compounds, Testing, Toxicity.

10947-69

EFFECT OF SIMAZINE ON QUALITY AND COMPOSITION OF TREE FRUIT. (ABSTRACT).

D B Carlson S K Ries

*Weed Soc Amer Abstr* 1967 MEETING:16

1967 241 W41

Biological assay, Fruit, Herbicides, Nitrogen, Plant biochemistry, Plant composition, Quality control, Simazine.

10948-69

COMPARATIVE EFFECTS OF TRETAMINE, TEPA, APHOLATE AND THEIR STRUCTURAL ANALOGS ON HUMAN CHROMOSOMES IN VITRO.

T H Chang W Klassen

*Chromosoma* 24(3):314-323 REF

13 Aug 1968 442.8 C46

Chemosterilants, Chromosomes, Ethylenimine, Genetics, Mutagens, Tissue culture, Toxicology.

10949-69

ESTROGENIC ACTION OF DDT AND ITS ANALOGS. (ABSTRACT).

W Levin R M Welch A H Conney

*Fed Amer Soc Exp Biol Fed Proc* 27(2):649

Mar 1968 442.9 F31P

Chlorinated hydrocarbons, Diethylstilbestrol, DDT, Enzymes, Estradiol, Estrogens, Fatty acids, Glucose, Lipids, Metabolism, Methoxychlor, Ovaries, Pesticides, Proteins, Rats, Ribonucleic acid, Surgery, Toxicology, Uterus.

10950-69

HYDROLYSIS OF MALATHION BY CHICKEN AND RAT LIVER CARBOXYESTERASE. (ABSTRACT).

J M J Ning W W Marion

*Poultry Sci* 47(5):1701-1702

Sep 1968 47.8 AM33P

Biochemistry, Chickens, Enzymes, Esterases, Hydrolysis, Liver, Malathion, Organophosphorus compounds, Rats. Abstract of paper presented at the 57th Annual Meeting of the Poultry Science Association.

10951-69

EFFECTS OF CHRONIC ENDRIN ADMINISTRATION ON BRAIN ELECTRICAL ACTIVITY IN THE SQUIRREL MONKEY. (ABSTRACT).

A M Revzin

*Fed Amer Soc Exp Biol Fed Proc* 27(2):597

Mar 1968 442.9 F31P

Biochemistry, Brain, Electrophysiology, Endrin, Monkeys, Toxicology.

10952-69

STUDIES ON THE ANTICHOLINESTERASE EFFECTS OF METHYL PARATHION, GUTHION, DICHLORVOS, AND GARDONA IN HUMAN SUBJECTS. (ABSTRACT).

J A Rider H C Moeller E J Puletti J Swader

*Fed Amer Soc Exp Biol Fed Proc* 27(2):597

Mar 1968 442.9 F31P

Azinphosmethyl, Blood plasma, Chlro-1-(2,4,5-trichlorophenyl)vinyl dimethyl phosphate, 2-Cholinesterases, Dichlorvos, Erythrocytes, Humans, Methyl parathion, Organophosphorus compounds, Pesticides, Toxicology.

10953-69

SOME HARMFUL PLANTS OF SOUTHEAST ASIA.

J H Stover

*National Naval Medical Center, Bethesda, Maryland* 50P

1967 OK100.V5N3

Injuries, Plant geography, Poisonous plants, Skin diseases.

This publication contains useful information for anyone entering new and unfamiliar territory who would encounter new, unknown and unrecognized species of plants. Plant names, descriptions, habitats and injuries caused by the plants are given.

10954-69

THE TOXICITY OF NINE THERAPEUTIC AND HERBICIDAL COMPOUNDS TO STRIPED BASS.

T C Wcellborn

*Progr Fish-cult* 31(1):27-32 REF

Jan 1969 157.5 P94

Biochemistry, Fish, Herbicides, Therapeutics, Toxicology.

Compounds tested: copper sulfate, diquat, dylox, formalin, globe terramycin pet tabs, karmex, potassium permanganate, polyotic, and simazine.

10955-69

SAFETY EVALUATION OF THE PESTICIDE DIAZINON BY A TWO-YEAR FEEDING TRIAL IN RHEUS MONKEYS. (ABSTRACT).

G Woodard M Woodard M T I Cronin

*Fed Amer Soc Exp Biol Fed Proc* 27(2):597

Mar 1968 442.9 F31P

Cholinesterases, Diazinon, Insecticides, Monkeys, Organophosphorus compounds, Toxicology.

## PLANT PHYSIOLOGY & BIOCHEMISTRY

10956-69

COMPARISON OF THREE SOIL-INCORPORATED HERBICIDES, TRIFLURALIN, BENEFIN, AND SD-II831, ON THE GROWTH OF COTTON SEEDLINGS. (ABSTRACT).

W P Anderson J W Whitworth

10957-69  
FACTORS AFFECTING ADSORPTION OF ATRAZINE AND DIPHENAMID BY THREE VARYING SOIL TYPES. (ABSTRACT).  
R A Ashley E M Rahn  
Weed Soc Amer Abstr 1967 MEETING:70  
1967 241 W41  
Atrazine, Biochemistry, Chemical control (weeds), Diphenamid, Herbicides, Soil adsorption, Soil science.

10958-69  
THE INFLUENCE OF ENDOTHAL, DICHLOBENIL, AND BROMOXYNIL, ON PROTEOLYTIC ACTIVITY IN THE COTYLEDONS OF SQUASH SEEDLINGS. (ABSTRACT).  
F M Ashton D Penner S Hoffmann  
Weed Soc Amer Abstr 1967 MEETING:56-57  
1967 241 W41  
Bromoxynil, Dichlobenil, Endothal, Herbicides, Plant biochemistry, Plant physiology, Squash.

10959-69  
EFFECT OF N6BENZYLADENINE ON SEED GERMINATION AND SEEDLING GROWTH OF APPLE (MALUS SYLVESTRIS MILL.).  
M Badizadegan R F Carlson  
Amer Soc Horticult Sci Proc 91:1-8 REF  
1967 81 SO12  
Apples, Benzyladenine, n6, Crop varieties, Embryos, Growth factors, Seed germination, Seed treatment, Seedlings.

10960-69  
PHYTOTOXICITY OF CERTAIN HERBICIDES TO SEVERAL WOODY ORNAMENTALS.  
S W Bingham J R Jones  
Amer Soc Horticult Sci Proc 91:786-791 REF  
1967 81 SO12  
Chlorosis, Dichlobenil, Herbicides, Ornamental plants, Plant injuries, Plant physiology, Plant transpiration, Symptomatology, Toxicology, Trifluralin.

10961-69  
THE DISTRIBUTION, CONTENT, AND MOVEMENT OF PICLORAM AFTER FOLIAR AND SOIL APPLICATIONS ON HUISACHE. (ABSTRACT).  
R W Bovey M G Merkle F S Davis  
Weed Soc Amer Abstr 1967 MEETING:40-41  
1967 241 W41  
Acacia farnesiana, Chromatography, Leaves, Pesticide application, Picloram, Plant biochemistry, Plant physiology, Plant translocation, Soil sanitation.

10962-69  
THE INFLUENCE OF MAGNESIUM ON THE TOXICITY OF ATRAZINE. (ABSTRACT).  
R G Brenchley A P Appleby  
Weed Soc Amer Abstr 1967 MEETING:52  
1967 241 W41  
Atrazine, Herbicides, Magnesium, Oats, Plant biochemistry, Plant injuries, Plant nutrition, Tomatoes.

10963-69  
THE EFFECT OF 3-AMINO-1,2,4-TRIAZOLE ON THE INCORPORATION OF CERTAIN AMINO ACIDS INTO THE SOLUBLE PROTEIN OF BEAN PLANTS. (ABSTRACT).  
J C Brown M C Carter  
Weed Soc Amer Abstr 1967 MEETING:61  
1967 241 W41  
Amino acids, Amitrole, Beans, Herbicides, Plant biochemistry, Plant physiology, Proteins.

10964-69  
SOME DATA ON THE CONDITIONS FOR OBTAINING AN EPICOTYLARY GROWTH IN-

HIBITION IN GINKGO BILOBA L. UNDER THE INFLUENCE OF GIBBERILLIC ACID. (FR)  
C Bulard M T Le Page-Degivry  
Acad Sci Compt Rend Ser D Sci Nat 266(4, 1ST SEMESTER):356-359  
22 Jan 1968 505 P21  
Gibberellic acid, Ginkgo biloba, Plant growth inhibitors, Plant physiology.

10965-69  
ABSORPTION AND TRANSLOCATION OF 2,4-D-2-C14 BY WOLFTAIL (CAREX CHEROKEEENSIS SCHWEIN). (ABSTRACT).  
E R Burns G A Buchanan A E Hiltbold  
Weed Soc Amer Abstr 1967 MEETING:42-43  
1967 241 W41  
Absorption, Carex, Chemical control (weeds), D, 2,4-, Herbicides, Phenoxy acid compounds, Plant biochemistry, Plant physiology, Plant translocation.

10966-69  
EFFECTS OF N-DIMETHYL AMINO SUCINAMIC ACID (B-NINE) ON FLOWER LONGEVITY AND VEGETATIVE GROWTH OF POT CHRYSANTHEMUMS (CHRYSANTHEMUM MORIFOLIUM RAMAT).  
J W Buxton J R Culbert  
Amer Soc Horticult Sci Proc 91:645-652  
1967 81 SO12  
Chrysanthemum morifolium, Dosage, Longevity, Plant physiology, Plant regulators, Succinic acid, 2,2-dimethylhydrazide.

10967-69  
CHARACTERISTICS OF DOUGLAS-FIR LOGS IN RELATION TO AMBROSIA BEETLE ATTACK.  
J A Chapman E D A Dyer  
Forest Sci 15(1):95-101 REF  
Mar 1969 99.8 F7632  
Forest insects, Humidity, Pseudotsuga menziesii, Starches, Trypodendron lineatum, Wood properties.

10968-69  
INTERACTION OF GIBBERELIC ACID AND LIGHT ON THE GERMINATION AND GROWTH OF SEEDLINGS OF GOSSYPIUM HERBACEUM L. VAR. DIGVIJAY.  
A R Chavan P I Chaudhari  
Indian J Plant Physiol 10(1):76-83 REF  
1967 450 IN23  
Cotton, Gibberellic acid, Hypocotyl, Light, Plant growth inhibitors, Plant physiology, Seed germination, Seedlings, Tables (data).

10969-69  
THE EFFECT OF SIMAZINE CONCENTRATION ON NITRATE REDUCTASE LEVELS IN SEVERAL PLANT SPECIES. (ABSTRACT).  
H Chmiel S K Ries  
Weed Soc Amer Abstr 1967 MEETING:60  
1967 241 W41  
Corn, Echinochloa crusgalli, Enzymes, Herbicides, Nitrate reductase, Plant biochemistry, Rye, Simazine.

10970-69  
EFFECT OF ACTIVATED CARBON AND OTHER ADSORBENTS ON THE BIOLOGICAL ACTIVITY OF CERTAIN HERBICIDES. (ABSTRACT).  
D L Coffey G F Warren  
Weed Soc Amer Abstr 1967 MEETING:52  
1967 241 W41  
Activated carbon, Cucumbers, Herbicides, Plant biochemistry, Soil adsorption, Sorghum.

10971-69  
AMIBEN GLUCOSIDE FORMATION AS A POSSIBLE MECHANISM OF HERBICIDAL TOLERANCE IN PLANTS. (ABSTRACT).  
S R Colby  
Weed Soc Amer Abstr 1967 MEETING:68  
1967 241 W41  
Amiben, Glycosides, Herbicides, Plant biochemistry, Plant physiology, Plants.

10972-69  
INTERACTION EFFECTS OF PESTICIDE COMBINATIONS ON FOUR PLANTS. (ABSTRACT).  
F T Corbin J J Sheets  
Weed Soc Amer Abstr 1967 MEETING:73  
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Chemical reactions, Corn, Cotton, Cucumbers, Pesticides, Plant biochemistry, Wheat.

10973-69  
EFFECT OF CYCOCEL ON FOOT AND ROOT ROTS, LODGING AND YIELD OF SPRING WHEAT.  
P C Cunningham  
Dublin Foras Taluntais Plant Sci Crop Husb 94-95  
1967 103 D852  
Chloroethyltrimethylammonium chloride, (2-, Crop losses, Foot rot, Fungus diseases (plants), Lodging, Plant biochemistry, Plant physiological diseases, Plant physiology, Root rot, Wheat.

10974-69  
EFFECT OF MOISTURE STRESS ON THE ABSORPTION AND TRANSPORT OF HERBICIDES IN WOODY PLANTS. (ABSTRACT).  
F S Davis M G Merkle R W Bovey  
Weed Soc Amer Abstr 1967 MEETING:44  
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Absorption, Chemical control (weeds), Chromatography, Herbicides, Picloram, Plant physiology, Plant translocation, Plant water relations, Prosopis, Shrubs.

10975-69  
VEGETATIVE STIMULATION OF CONCORD GRAPES FOLLOWING WEED CONTROL WITH DIURON, MONURON, AND SIMAZINE. (ABSTRACT).  
J H Dawson V F Bruns W J Clore  
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Chemical control (weeds), Crop varieties, Diuron, Grapes, Herbicides, Monuron, Plant biochemistry, Plant physiology, Simazine. Abstract of 1967 Weed Society of America meeting

10976-69  
DICTYOSTELIUM DISCOIDEUM: A GAMMA-RAY RESISTANT ORGANISM.  
R A Deering  
Science 162(3859):1289-1290 REF  
13 Dec 1968 470 SCI2  
Cells, Cobalt isotopes, Dictyostelium discoideum, Dosage, Gamma rays, Myxomycetes, Plant physiology, Resistance.

10977-69  
INFLUENCE OF ATRAZINE ON THE NITRATE CONTENT OF CORN. (ABSTRACT).  
J D Doll W F Meggitt  
Weed Soc Amer Abstr 1967 MEETING:9-10  
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Atrazine, Biological assay, Corn, Herbicides, Nitrates, Plant biochemistry.

10978-69  
STUDIES ON THE MODE OF ACTION OF 2-CHLORO-N-ISOPROPYLACETANILIDE. (ABSTRACT).  
W B Duke F W Slife J B Hanson  
Weed Soc Amer Abstr 1967 MEETING:50  
1967 241 W41  
Chloro-N-isopropylacetanilide, 2-, Herbicides, Plant biochemistry, Plants.

10979-69  
THE EFFECTS OF TRIFLURALIN ON THE NUCLEIC ACIDS AND CARBOHYDRATES CONTENT OF SWEET POTATOES AND PEANUTS. (ABSTRACT).  
I E Dukes P K Biswas  
Weed Soc Amer Abstr 1967 MEETING:59  
1967 241 W41  
Carbohydrates, Herbicides, Nucleic acids, Peanuts, Plant biochemistry, Plant physiology, Sweet potatoes, Trifluralin.

## 10980-69

ABSORPTION, TRANSLOCATION AND ACCUMULATION OF LABELED N-DIMETHYLAMINOSUCCINAMIC ACID IN APPLE TISSUES.

J. Edgerton W J Greenhalgh  
*Amer Soc Horticult Sci Proc* 91:25-30

1967 81 SO12

Absorption, Apples, Carbon isotopes, Plant biochemistry, Plant growth inhibitors, Plant physiology, Plant translocation, Spraying, Succinic acid, 2,2-dimethylhydrazide, Tissues.

## 10981-69

TWO TYPES OF POST-EMERGENCE ACTIVITY OF CIPC. (ABSTRACT).

Y Eshel G F Warren

*Weed Soc Amer Abstr* 1967 MEETING:48-49

1967 241 W41

Chemical control (weeds), Chlorinated hydrocarbons, Chlorosis (plants), Chlorpropham, Herbicides, Photosynthesis, Plant biochemistry, Plant physiology, Plant respiration, Spraying.

## 10982-69

EFFECTS OF IOXYNIL ON RESPIRATION. (ABSTRACT).

T E Ferrari D E Eland

*Weed Soc Amer Abstr* 1967 MEETING:57-58

1967 241 W41

Herbicides, Ioxynil, Plant biochemistry, Plant physiology, Plant respiration.

## 10983-69

ACORN MOISTURE CONTENT CRITICAL FOR CHERRYBARK OAK GERMINATION.

*U S Forest Serv Res Note N C* (63):2P

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Acorns, Humidity, Plant growth inhibitors, Plant physiology, Quercus falcata, Seed germination.

## 10984-69

FURTHER STUDIES ON ROOT EXUDATION OF EXOGENOUS GROWTH REGULATORS IN PHASEOLUS VULGARIS L. (ABSTRACT).

C L Foy W Hurt

*Weed Soc Amer Abstr* 1967 MEETING:40

1967 241 W41

Biological assay, Chromatography, Dicamba, Exudates, Herbicides, Kidney beans, Pieloram, Plant biochemistry, Plant physiology, Plant regulators, Plant translocation, Roots.

## 10985-69

THE EFFECT OF BROMOXYNIL AND DICAMBA ON THE WATER USE OF BARLEY AND TARTARY BUCKWHEAT GROWN ALONE AND TOGETHER. (ABSTRACT).

H A Friesen D A Dew

*Weed Soc Amer Abstr* 1967 MEETING:11-12

1967 241 W41

Barley, Biochemistry, Bromoxynil, Buckwheat, Dicamba, Herbicides, Plant physiology, Water consumptive use.

## 10986-69

ETHYLENE, LIGHT, AND STRESS IN THE GROWTH AND DEVELOPMENT OF PISUM SATIVUM L. CV. ALASKA.

J D Goeschl

*Diss Abstr Sect B* 29(3):899B

Sep 1968 Z5055.U49D53

Biochemistry, Ethylene, Growth factors, Light, Peas, Plant morphology, Plant physiology.

## 10987-69

INTERACTION OF ALAR AND GIBBERELLIN ON GROWTH AND FLOWERING OF THE APPLE.

W J Greenhalgh L J Edgerton

*Amer Soc Horticult Sci Proc* 91:9-17 REF

1967 81 SO12

Apples, Dosage, Gibberellins, Plant growth inhibitors, Plant physiology, Potassium gibberellate, Succinic acid, 2,2-dimethylhydrazide.

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## 10988-69

THE METABOLISM OF TRIFLURALIN BY PEANUTS AND SWEET POTATOES. (ABSTRACT).

W Hamilton P K Biswas

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Herbicides, Peanuts, Plant biochemistry, Plant metabolism, Plant physiology, Sweetpotatoes, Trifluralin.

## 10989-69

EFFECTS OF PROLONGED USE OF CERTAIN HERBICIDES ON SOIL MICROORGANISMS. (ABSTRACT).

D D Hemphill M L Fields

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1967 241 W41

Culture media, Dichlorophenyl) O-methyl isopropylphosphoramidothioate, Od, Herbicides, Plant physiology, Pythium debaryanum, Soil microorganisms.

## 10990-69

ATRAZINE INDUCED ULTRASTRUCTURAL CHANGES OF BARNYARDGRASS CHLOROPLASTS. (ABSTRACT).

E R Hill E C Putala J Vengris

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1967 241 W41

Atrazine, Chemical control (weeds), Chloroplasts, Echinochloa crusgalli, Herbicides, Plant biochemistry, Plant cytology, Plant physiology.

## 10991-69

MODES OF ACTION OF 3-AMINO-1,2,4-TRIAZOLE (AMITROLE). (ABSTRACT).

J L Hilton D D Kaufman

*Weed Soc Amer Abstr* 1967 MEETING:48

1967 241 W41

Algae, Amitrole, Bacteria, Fungi, Histidine, Microorganisms, Plant biochemistry, Salmonella typhimurium, Yeasts.

## 10992-69

SOME EFFECTS OF ENVIRONMENT AND SPECIES ON ABSORPTION AND METABOLISM OF AMIBEN IN PLANTS. (ABSTRACT).

R A Hodgson

*Weed Soc Amer Abstr* 1967 MEETING:64-65

1967 241 W41

Absorption, Amiben, Barley, Cucumbers, Environment, Herbicides, Plant biochemistry, Plant metabolism, Radioactive tracers, Soybeans.

## 10993-69

ABSORPTION, TRANSLOCATION, AND METABOLISM OF CIPC IN PLANTS. (ABSTRACT).

R H Hodgson

*Weed Soc Amer Abstr* 1967 MEETING:65-66

1967 241 W41

Absorption, Chlorinated hydrocarbons, Chlorpropham, Field crops, Herbicides, Plant biochemistry, Plant metabolism, Plant physiology, Plant translocation, Radioactive tracers.

## 10994-69

SELECTIVITY OF LINURON ON PARSNIP AND TOMATO. (ABSTRACT).

E J Hogue G F Warren

*Weed Soc Amer Abstr* 1967 MEETING:47-48

1967 241 W41

Herbicides, Linuron, Parsnips, Plant biochemistry, Plant translocation, Tomatoes.

## 10995-69

IDENTIFICATION OF TOBACCO MOSAIC COAT PROTEIN AFTER THE INJECTION OF TOBACCO MOSAIC VIRUS RNA INTO THE COMMON SLIME MOLD. (ABSTRACT).

D Humm J H Humm

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Electrophoresis, Molds, Mosaic, Proteins, Ribonucleic acid, Tobacco, Virus diseases (plants), Viruses.

## 10996-69

EFFECT OF GIBBERELLIC ACID ON COLOR CHANGES IN THE RIND OF THREE SWEET ORANGE CULTIVARS (CITRUS SINENSIS BLANCO).

M A Ismail R H Biggs M F Oberbacher

*Amer Soc Horticult Sci Proc* 91:143-149 REF

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Citrus sinensis, Color, Crop varieties, Gibberellic acid, Oranges, Plant biochemistry, Synthesis.

## 10997-69

THE EFFECT OF ZN ON YIELD AND CHEMICAL COMPOSITION OF SWEET CORN IN THE WILLAMETTE VALLEY.

T L Jackson J Hay D P Moore

*Amer Soc Horticult Sci Proc* 91:462-471 REF

1967 81 SO12

Corn, Crop yields, Iron, Lime, Phosphorus, Plant biochemistry, Plant nutrition, Plant physiology, Zinc.

## 10998-69

HERBICIDE RESISTANCE IN AVENA FATUA L. (WILD OAT). (ABSTRACT).

R Jacobsen R N Andersen

*Weed Soc Amer Abstr* 1967 MEETING:36

1967 241 W41

Avena fatua, Barban, Diallate, Greenhouse culture, Herbicide resistant plants, Plant biochemistry, Plant physiology, Triallate.

## 10999-69

THE MODE OF ACTION OF DIPHENAMID IN PLANTS. (ABSTRACT).

C D Kesner S K Rics

*Weed Soc Amer Abstr* 1967 MEETING:49-50

1967 241 W41

Absorption, Aspergillus candidus, Chemical control (weeds), Diphenamid, Echinochloa crusgalli, Plant biochemistry, Plant translocation, Tomatoes, Trichoderma viride.

## 11000-69

METHYL M-HYDROXYCARBANILATE M-METHYLCARBANILATE. NOTICE OF ESTABLISHMENT OF TEMPORARY TOLERANCE.

J K Kirk

*Fed Regist* 34(80):6985

26 Apr 1969 L1.451

Carbanilates, Herbicide residues, Herbicides, Sugar beets, Tolerances.

## 11001-69

SOIL INCORPORATION AND SITE OF UPTAKE FOR PREEMERGENCE HERBICIDES. (ABSTRACT).

E L Knae C A P Appleby W R Furtick

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1967 241 W41

Absorption, Chemical control (weeds), Greenhouse culture, Herbicides, Plant biochemistry, Setaria viridis, Soil sanitation.

## 11002-69

ADSORPTION, LEACHING AND LATERAL DIFFUSION OF FOUR THIOLCARBAMATE HERBICIDES IN SOIL. (ABSTRACT).

E Korn C L Foy F M Ashton

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Biochemistry, Chemical control (weeds), Diffusion, Echinochloa crusgalli, Herbicides, Plant biochemistry, Soil adsorption, Soil leaching, Soil sanitation, Thiocarbamates.

## 11003-69

A COMPARISON OF THE EFFECTS OF LINURON ON PHOTOSYNTHESIS AND RESPIRATION OF CARROT AND COMMON RAGWEED. (ABSTRACT).

H Kurata E M Rahn

*Weed Soc Amer Abstr* 1967 MEETING:19-20

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Ambrosia artemisiifolia, Carrots, Linuron, Photosynthesis, Plant biochemistry, Plant respiration.

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**STUDIES ON ALTERING TRANSPORT AND ACCUMULATION OF  $^{14}\text{C}$  ASSIMILATES IN PLANTS. (ABSTRACT).**  
 O A Leonard T W Donaldson D E Bayer  
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Alfalfa, Autoradiography, Beans, Carbon isotopes, *Ceanothus integrifolius*, Plant translocation, Radioactive tracers, Subterranean clover.

**11005-69**  
**THE ACTION OF GIBBERELLIC ACID ON RHIZOGENESIS IN STEM PIECES OF PEAS (*PISUM SATIVUM L.*) CULTIVATED IN VITRO IN PRESENCE OF AUXIN IN DARKNESS OR IN LIGHT. (FR).**  
 R Leroux  
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Gibberellic acid, Light, *Pisum sativum*, Plant growth regulator, Plant hormones, Roots, Tissue culture.

**11006-69**  
**TOXIC EFFECTS OF BLACK FIBER POTS ON TOMATO TRANSPLANTS.**  
 E F Maas R M Adamson  
*Amer Soc Horticult Sci Proc 91:556-560*  
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Calcium nitrate, Fibers, Plant growth inhibitors, Plant physiology, Seedlings, Tomatoes, Toxins, Transplanting, Vermiculite.

**11007-69**  
**EFFECT OF TIME AND TEMPERATURE OF STORAGE ON VIABILITY OF BOTRYTIS CONVOLUTA CONIDIA AND SCLEROTIA.**  
 J L Maas  
*Plant Dis Rep 53(2):141-144*  
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*Botrytis convoluta*, Conidia, Fungus diseases (plants), Plant physiology, Plant temperature, Sclerotia, Seed germination, Soil-borne plant diseases, Storage, Time.

**11008-69**  
**ASPECTS OF THE PHYSIOLOGY OF HERBICIDAL ACTION OF DICAMBA IN PURPLE NUTSEDGE (*CYPERUS ROTUNDUS L.*). (ABSTRACT).**  
 A C Magalhaes C L Foy  
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Autoradiography, Chemical control (weeds), Chromatography, *Cyperus rotundus*, *Dicamba*, Herbicides, Metabolism, Plant physiology, Plant translocation.

**11009-69**  
**ENDOGENOUS GROWTH REGULATING FACTORS IN BARK OF *eM IX* AND *XVI* APPLE TREES.**  
 G C Martin E A Stahly  
*Amer Soc Horticult Sci Proc 91:31-38*  
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Apples, Bark, Hydroxy cinnamic acid, p-, Phenols, Phlorizin, Plant growth inhibitors, Plant physiology, Plant regulators.

**11010-69**  
**PHYSICAL AND BIOLOGICAL ATTRIBUTES OF SEVERAL AMIBEN DERIVATIVES. (ABSTRACT).**  
 S R McLane M D Parkins A R Cooke  
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Amiben, Biochemistry, Chemical control (weeds), Herbicides, Physical chemistry, Plant biochemistry.

**11011-69**  
**GROWTH AND CONTROL OF JOHNSON-GRASS ECOTYPES. (ABSTRACT).**  
 C G McWhorter  
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Chemical control (weeds), Dalapon, Disodium methancarboxylate, Fertilizers, Nitrogen, Plant biochemistry, Plant physiology, Sorghum halophenol, Time.

**11012-69**  
**HONEY MESQUITE STEM STRUCTURE AND SEASONAL GROWTH CYCLE. (ABSTRACT).**  
 R E Meyer R H Haas  
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Plant anatomy, Plant physiology, *Prosopis glandulosa*, Stems, Tissues, Weeds.

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**PYRETHRUM.**  
 P S T Miric  
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Carbamates, *Chrysanthemum*, Fertilizers, Herbicides, Nurseries, Plant biochemistry, Plant genetics, Pyrethrum, Urea compounds.

**11014-69**  
**INFLUENCE OF BUTYL ETHER 2,4-D AND AMMONIUM SULPHAMATE PREPARATE ON THE GRASS STAND OF BRUSH STEPPE IN THE FLOOD PLAIN OF THE RIVER BELAYA. (RUS)**  
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**COMPARISON OF RADIOISOTOPIC AND GAS CHROMATOGRAPHIC METHODS FOR MEASURING ABSORPTION AND TRANSLOCATION OF 2,4,5-T BY MESQUITE. (ABSTRACT).**  
 H L Morton F S Davis M G Merkle  
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Absorption, Chemical control (weeds), Chromatography, Herbicides, Measurement, Phenoxy acid compounds, Plant biochemistry, Plant physiology, Plant translocation, *Prosopis*, Radioisotopes, T, 2,4,5.

**11016-69**  
**PHYTOTOXIC SYNERGISM WITH SOIL APPLIED HERBICIDE-INSECTICIDE COMBINATIONS. (ABSTRACT).**  
 R G Nash  
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Corn, Cotton, Disulfoton, Diuron, Herbicides, Insecticides, Oats, Pesticide synergists, Phorate, Plant biochemistry, Plant injuries, Soil sanitation.

**11017-69**  
**STUDIES ON THE GROWTH REGULATOR CCC (2 CHLOROETHYL TRIMETHYL AMMONIUM CHLORIDE) ON WHEAT.**  
 M Neenan  
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Chloroethyltrimethylammonium chloride, (2-, Crop varieties, Herbicides, Nitrogen, Plant biochemistry, Plant physiology, Plant regulators, Wheat.

**11018-69**  
**EFFECT OF TRIFLURALIN ON OXYGEN UPTAKE AND OXIDATIVE PHOSPHORYLATION IN ISOLATED MITOCHONDRIA. (ABSTRACT).**  
 N S Negi H H Funderburk D P Schultz D E Davis  
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Corn, Herbicides, Mitochondria, Oxygen, Phosphorylation, Plant biochemistry, Plant physiology, Plant respiration, Sorghum, Soybeans, Trifluralin.

**11019-69**  
**THREE YEARS OF TESTS WITH CYCOCEL AND ITS MISCELLANEOUS WITH HERBICIDES. (GE)**  
 A Nicmoller  
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*Cereosporella herpotrichoides*, Chemical control (weeds), Chloroethyltrimethylammonium chloride, (2-, Crop varieties, Fungus diseases (plants), Herbicides, Ioxynil, Plant disease resistance, Plant growth inhibitors, Urca, Wheat.

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 R K Nishimoto A P Appleby W R Furtick  
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Absorption, Greenhouse culture, Herbicides, Oats, Plant biochemistry.

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**HIGHER SURVIVAL RATE OF HIGHLY IRRADIATED BARLEY IN A POT TEST, AFTER FERTILIZATION WITH (2-CHLOROETHYL) TRIMETHYLAMMONIUM CHLORIDE (CCC) AND AMMONIUM SULFATE. (GE)**  
 J D Oswald E Haunold K Kaindl  
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Ammonium sulfate, Barley, Chloroethyltrimethylammonium chloride, (2-, Fertilizers, Irradiation, Plant biochemistry, Plant protection, Variance analysis. English summary.

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 J T Racse B G Sitten  
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Absorption, Chlorosis, Dosage, Leaves, Lithium, Lithium chloride, Magnesium, Necrosis, Plant injuries, Plant physiology, Plant translocation, Seedlings, Tung oil tree.

**11023-69**  
**THE METABOLISM OF PYRAZON IN RED BEETS. (ABSTRACT).**  
 S K Ries G R Stephenson M J Zabik  
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Beets, Chromatography, Herbicides, Plant biochemistry, Plant metabolism, Plant physiology, Pyrazon, Spectroscopy.

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**INVESTIGATION OF THE INTERACTION BETWEEN WEED CONTROL AND FERTILIZATION OF VINEYARDS. (IT)**  
 D Rui N Rizzotto  
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Atrazine, Chemical control (weeds), Dichlobenil, Dichlorothiocarbamide, 2,6-, Diquat, Fertilizers, Grape vineyards, Paraquat, Tables (data), Weeds.

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**POSSIBILITIES AND LIMITS OF AN OPTIMUM OR MAXIMUM NITROGEN FERTILIZATION. (GE)**  
 E Saalbach  
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Chloroethyltrimethylammonium chloride, (2-, Dosage, Fertilizers, Nitrogen, Plant growth regulator, Plant nutrition. English summary.

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 R M Sachs R G Maire  
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11027-69

Callistemom, Climbing plants, Dosage, Humidity, Ligustrum, Malic hydrazide, Nursery stock (horticulture), Pinus, Plant physiology, Succinic acid, 2,2-dimethylhydrazide, Testing.

11027-69

EFFECT OF HERBICIDES ON GROWTH OF ESTABLISHED MIDWAY AND SURECROP STRAWBERRY PLANTS GIVEN REPLANT TREATMENTS OF ACTIVATED CHARCOAL. (ABSTRACT).

O E Schubert

*Weed Soc Amer Abstr 1967 MEETING:16*

1967 241 W41

Activated carbon, Chemical control (weeds), Crop varieties, Greenhouse culture, Herbicides, Plant biochemistry, Plant physiology, Strawberries.

11028-69

THE EFFECT OF TRIFLURALIN ON NUCLEIC ACIDS AND PROTEIN OF CORN ROOTS. (ABSTRACT).

D P Schultz H H Funderburk

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Corn, Herbicides, Nucleic acids, Plant biochemistry, Plant physiology, Proteins, Roots, Trifluralin.

11029-69

EFFECT OF TIME OF POSTEMERGENCE APPLICATIONS OF PYRAZON AND DALAPON ON SUGAR BEETS. (ABSTRACT).

E E Schwizer

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Dalapon, Herbicides, Pesticide application, Plant growth inhibitors, Pyrazon, Sugar beets, Timc.

11030-69

DEALKYLATION OF ATRAZINE IN HIGHER PLANTS AND ITS SIGNIFICANCE. (ABSTRACT).

R H Shimabukuro

*Weed Soc Amer Abstr 1967 MEETING:62-63*

1967 241 W41

Atrazine, Herbicides, Peas, Plant biochemistry, Plant metabolism, Plant physiology.

11031-69

STUDIES ON GROWTH AND MUTATION FREQUENCY IN RICE IN TREATMENTS WITH DIMETHYL SULPHOXIDE AND ETHYL METHANE SULPHONATE.

E A Siddiq R P Puri V P Singh

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Dimethylsulfoxide, Ethyl methanesulfonate, Plant mutation, Plant physiology, Ricc.

11032-69

TOXICITY OF SURFACTANT-HERBICIDE COMBINATIONS TO LEMNA MINOR (L.). (ABSTRACT).

D L Sirois D W Staniforth

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1967 241 W41

Chemical control (weeds), Herbicides, Lemna minor, Plant biochemistry, Surfactant-active agents.

11033-69

THE EFFECTS OF CIPC VAPORS ON THE CONTROL OF DODDER SEEDLINGS. (ABSTRACT).

C H Slater W R Furtick A P Appleby

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Alfalfa, Chemical control (weeds), Chlorinated hydrocarbons, Chlorpropham, Cuscuta, Herbicides, Plant biochemistry, Vapors.

11034-69

METABOLISM OF AMITROLE-C14 IN EXCISED BEAN AND CANADA THISTLE LEAVES. (ABSTRACT).

L W Smith D E Bayer C L Foy

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1967 241 W41

Amitrole, Beans, Carbon isotopes, Cirsium arvense, Herbicides, Leaves, Plant biochemistry, Plant metabolism, Radioactive tracers.

11035-69

VARIATIONS IN ACIDITY OF CELL CONSTITUENTS AS INFLUENCED BY APPLICATION OF HERBICIDES AND ORGANIC ACIDS. (ABSTRACT).

S L Solymosy

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Acids, Alternanthera philoxeroides, Biological assay, Cells, Herbicides, Hydrogen-ion concentration, Organic compounds, Plant biochemistry.

11036-69

SIZE CONTROL OF NURSERY TREES WITH N-DIMETHYLAMINOSUCCINAMIC ACID.

E A Stahly M W Williams

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Apple, Cherries, Dosage, Nurseries, Peas, Plant growth inhibitors, Plant physiology, Plant regulators, Plums, Succinic acid, 2,2-dimethylhydrazide, Trees.

11037-69

THE EFFECT OF ENVIRONMENT ON ROOT SUCKERING IN ROBINIA PSEUDOACACIA L. (ABSTRACT).

J P Sterrett W E Chappell

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1967 241 W41

Environment, Greenhouse culture, Plant cuttings, Plant physiology, Robinia pseudoacacia, Roots.

11038-69

THE METABOLIC FATE OF PROPANIL. I. (ABSTRACT).

G G Still

*Weed Soc Amer Abstr 1967 MEETING:63-64*

1967 241 W41

Carbamates, Herbicides, Metabolites, Peas, Plant biochemistry, Plant metabolism, Plant physiology, Propanil, Rice, Roots, Urea compounds.

11039-69

THE METABOLIC FATE OF PROPANIL, II. (ABSTRACT).

G G Still R E Kadunce

*Weed Soc Amer Abstr 1967 MEETING:63*

1967 241 W41

Carbamates, Herbicides, Metabolites, Peas, Plant biochemistry, Plant metabolism, Plant physiology, Propanil, Rice, Roots, Urea compounds.

11040-69

SOME FACTORS AFFECTING DORMANCY AND THE INVESTIGATION OF ENDOGENOUS AUXINS AND INHIBITORS IN THE HARDSHELL BULBS OF WILD GARLIC. (ABSTRACT).

J F Stritzke E J Peters

*Weed Soc Amer Abstr 1967 MEETING:34-35*

1967 241 W41

Allium vineale, Bulbs, Plant dormancy, Plant extracts, Plant growth inhibitors, Plant hormones, Plant physiology, Weeds.

11041-69

DORMANCY AND ANATOMICAL DEVELOPMENT OF BULBS OF WILD GARLIC DURING THE SUMMER AND FALL AFTER FORMATION. (ABSTRACT).

J F Stritzke E J Peters

*Weed Soc Amer Abstr 1967 MEETING:34*

1967 241 W41

Allium vineale, Bulbs, Plant anatomy, Plant dormancy, Plant physiology, Weeds.

11042-69

MONURON DEGRADATION AND RECOVERY OF MONURON-INHIBITED PHOTOSYNTHETIC ACTIVITY. (ABSTRACT).

C R Swanson G G Still H R Swanson

*Weed Soc Amer Abstr 1967 MEETING:60-61*

1967 241 W41

Monuron, Photosynthesis, Plant biochemistry, Plant metabolism, Plant physiology, Radioactive tracers.

Herbicides, Monuron, Photosynthesis, Plant biochemistry, Plant metabolism, Plant physiology, Radioactive tracers.

11043-69

STUDIES ON THE SELECTIVE ACTION OF TRIFLURALIN BETWEEN SOYBEANS AND SORGHUM. (ABSTRACT).

R E Talbert

*Weed Soc Amer Abstr 1967 MEETING:50-51*

1967 241 W41

Herbicides, Plant biochemistry, Plant translocation, Sorghum, Soybeans, Trifluralin.

11044-69

THE INFLUENCE OF SIMAZINE ON GROWTH AND NITROGEN METABOLISM OF CORN. (ABSTRACT).

J A Tweddle S K Ries

*Weed Soc Amer Abstr 1967 MEETING:60*

1967 241 W41

Corn, Herbicides, Nitrate reductase, Nitrogen, Plant biochemistry, Plant metabolism, Plant physiology, Simazine.

11045-69

EFFECTS OF HYDROPHILIC-LIOPHILIC BALANCE (HBL) OF NONIONIC SURFACTANTS ON PHYTOTOXICITY OF LINURON AND PROMETRYNE TO CARROTS. (ABSTRACT).

S N Umoessien F M Ashton C L Foy

*Weed Soc Amer Abstr 1967 MEETING:15*

1967 241 W41

Absorption, Carrots, Fats, Ions, Linuron, Plant biochemistry, Plant injuries, Prometryne, Surface-active agents, Water.

11046-69

THE RELATIONSHIP OF SOIL PROPERTIES TO THE PHYTOTOXICITY OF AN ACETANILIDE HERBICIDE. (ABSTRACT).

R P Upchurch D D Baird

*Weed Soc Amer Abstr 1967 MEETING:70-71*

1967 241 W41

Acetanilide compounds, Chemical control (weeds), Herbicides, Soil properties.

11047-69

TRANSLOCATION AND PERSISTENCE OF DICAMBA AND PICLORAM IN CANADA THISTLE. (ABSTRACT).

W H Vanden Born F Y Chang

*Weed Soc Amer Abstr 1967 MEETING:40-41*

1967 241 W41

Absorption, Cirsium arvense, Dicamba, Herbicides, Picloram, Plant biochemistry, Plant physiology, Plant translocation.

11048-69

BIOLOGICAL STUDIES OF BARNYARDGRASS. (ABSTRACT).

J Vengris

*Weed Soc Amer Abstr 1967 MEETING:37*

1967 241 W41

Biology, Chemical control (weeds), Crop yields, Echinochloa crusgalli, Plant biochemistry, Plant cuttings, Plant physiology, Seed germination.

11049-69

ROOT TEMPERATURE AND TRANSPIRATION INFLUENCES ON ATRAZINE ABSORPTION AND TRANSLOCATION. (ABSTRACT).

H J Vostral K P Buchholz

*Weed Soc Amer Abstr 1967 MEETING:39*

1967 241 W41

Absorption, Atrazine, Plant biochemistry, Plant physiology, Plant translocation, Plant transpiration, Radioactive tracers, Roots, Soybeans, Temperature.

11050-69

THE EFFECT OF SOME GROWTH PROMOTING SUBSTANCES ON THE ROOT SYSTEM OF SUMMER BARLEY. (CZ)

V Vymetal K Rimovsky O Chloupek

*Brno Acta Univ Agr Fac Agron 15(3):541-545*

1967 S13.B7



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11077-69

06 May 1969 156.65 OF2  
Benzimidazoles, Nematocides, Patents, Soil fumigation.

11077-69

ANTIBACTERIAL MIXTURE OF O-CARBAMYL-D-SERINE AND D-4-AMINO-3-ISOXAZOLIDINE.

H Umezawa N Tanaka

*Us Patent Office Offic Gaz* 859(3):937

18 Feb 1969 156.65 OF2

Bactericides, Chemistry, Patents.

11078-69

MOLECULAR STRUCTURE AND PH EFFECTS ON THE ADSORPTION OF 13 S-TRIAZINE COMPOUNDS ON MONTMORILLONITE CLAY. (ABSTRACT).

J B Weber

*Weed Soc Amer Abstr 1967 MEETING*:71

1967 241 W41

Chemistry, Clay minerals, Hydrogen-ion concentration, Molecules, Montmorillonite, Soil adsorption.

11079-69

CONTROL OF PATHOGENIC ORGANISMS WITH HALOGENATED PHENOXYCYCLOPENTENONES. PATENT 3,443,016.

E D Weil J Linder

*Us Patent Office Offic Gaz* 862(1):257

06 May 1969 156.65 OF2

Chemical control (plant diseases), Halogen compounds, Microorganisms, Patents, Pesticides, Phenoxy acid compounds.

11080-69

PROCESS FOR THE PURIFICATION OF CRUDE 2,5-DICHLORO-3-NITROBENZOIC ACID (DINOBEN). PATENT 3,441,603.

E Welch

*Us Patent Office Offic Gaz* 861(5):1576

29 Apr 1969 156.65 OF2

Chemistry, Dinoben, Patents, Purification.

11081-69

LIPIDS OF FOWLPOX VIRUS AND THE HOST CELL. (ABSTRACT).

H B White S S Powell L G Gafford C C Randall  
*Fed Amer Soc Exp Biol Fed Proc* 27(2):616

Mar 1968 442.9 F31P

Biochemistry, Cells, Chicks, Chromatography, Cytology, Fatty acids, Fowlpox virus, Lipids, Scalp.

11082-69

AMMONIA COMPLEX OF THE ZINC SALT OF ETHYLENE BIS-DITHiocarbamic ACID. PATENT 3,441,581.

H Windel E Pommer

*Us Patent Office Offic Gaz* 861(5):1573

29 Apr 1969 156.65 OF2

Ammonia, Carbamic acid, Fungicides, Patents, Zinc.

11083-69

METHODS OF DESTROYING WEEDS WITH SUBSTITUTED TETRALINS. PATENT 3,442,640.

T F Wood N E Achuff

*Us Patent Office Offic Gaz* 861(1):190-191

06 May 1969 156.65 OF2

Chemical control (weeds), Herbicides, Patents, Tetrahydronaphthalene.

## ENGINEERING

11084-69

SOIL SUB-SURFACE APPLICATIONS OF SELECTIVE THIOCARBAMATE HERBICIDES. (ABSTRACT).

J Antognini

*Weed Soc Amer Abstr 1967 MEETING*:94

1967 241 W41

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Agricultural engineering, Chemical control (weeds), Equipment, Herbicides, Pesticide application, Soil sanitation, Thiocarbamates.

11085-69

THE SPRAY DEPOSIT PATTERNS OF SEVERAL TYPES OF NOZZLES USED FOR LOW VOLUME APPLICATION. (ABSTRACT).

C E Bode M R Gebhardt C L Day

*Weed Soc Amer Abstr 1967 MEETING*:97-98

1967 241 W41

Agricultural engineering, Chemical control (weeds), Equipment, Nozzles, Particle size determination, Pesticide application, Spraying.

11086-69

A GRANULAR HERBICIDE SPREADER FOR GRADIENT OR CONSTANT RATE USE. (ABSTRACT).

G J Burkhardt J O Riggelman

*Weed Soc Amer Abstr 1967 MEETING*:96-97

1967 241 W41

Agricultural engineering, Chemical control (weeds), Dairy equipment, Herbicides, Pesticide application, Spraying.

11087-69

INEXPENSIVE MODIFICATIONS OF THE LOG SPRAYER FOR SMALL PLOT FIELD EVALUATION OF PESTICIDES. (ABSTRACT).

F A Darling J V Gramlich W L Wright

*Weed Soc Amer Abstr 1967 MEETING*:95-96

1967 241 W41

Agricultural engineering, Pesticide application, Spraying equipment.

11088-69

SPRAY DROPLET SIZES OBTAINED FROM SEVERAL TYPES OF NOZZLES USED FOR LOW VOLUME APPLICATION. (ABSTRACT).

M R Gebhardt L E Bode C L Day

*Weed Soc Amer Abstr 1967 MEETING*:97

1967 241 W41

Agricultural engineering, Chemical control (weeds), Equipment, Herbicides, Nozzles, Particle size determination, Pesticide application, Spraying.

11089-69

EFFECT OF TOOTH-SHAPE, ROTOR SPEED, FORWARD SPEED, AND DEPTH ON PERFORMANCE OF INCORPORATED HERBICIDES. (ABSTRACT).

L S Jordan B E Day J M Lyons W H Om

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1967 241 W41

Agricultural engineering, Chemical control (weeds), Equipment, Herbicides, Irrigation, Pesticide application, Soil sanitation.

11090-69

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S K Lehman R H Haas L F Bouse

*Weed Soc Amer Abstr 1967 MEETING*:98-99

1967 241 W41

Aerial spraying, Agricultural engineering, Aircraft, Chemical control (weeds), Equipment, Herbicides.

11091-69

CONSTRUCTION AND OPERATION OF THE ELECTRIC RAT FENCE.

F V Ramos

*Int Rice Res Inst Tech Pap* (3):4P

Jun 1967 SB191.R515

Accident prevention, Electricity, Equipment, Pest control, Rodents.

11092-69

THE DISTRIBUTION OF TRIFLURALIN IN THE SOIL WHEN INCORPORATED WITH THE DISK HARROW AND POWER ROTARY CULTIVATOR. (ABSTRACT).

K Read M R Gebhardt C L Day

*Weed Soc Amer Abstr 1967 MEETING*:93-94

1967 241 W41

Agricultural engineering, Chemical control (weeds), Diffusion, Equipment, Harrows, Herbicides, Pesticide application, Soil adsorption, Soil sanitation, Trifluralin.

11093-69

WILL THE GROUND EFFECT MACHINE WORK IN HERBICIDE APPLICATION (ABSTRACT).

A W Stretch

*Weed Soc Amer Abstr 1967 MEETING*:95

1967 241 W41

Agricultural engineering, Equipment, Herbicides, Pesticide application, Soil sanitation, Soils.

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11094-69

HERBICIDE COMBINATIONS. (ABSTRACT).

E L Knack

*Weed Soc Amer Abstr 1967 MEETING*:83

1967 241 W41

Agricultural education, Chemical control (weeds), Chemical reactions, Chlorinated hydrocarbons, Chloro-N,N-diallylacetamide, 2-, Chloropropan, D, 2,4-, Ethyl N,N-dipropylthiocarbamate, Formulations, Herbicides, Naphthylphthalamic acid, N-1-, Pesticide application, Phenoxy acid compounds, Thiocarbamates.

11095-69

HERBICIDE COMBINATIONS. (ABSTRACT).

H C Olson

*Weed Soc Amer Abstr 1967 MEETING*:84

1967 241 W41

Agricultural education, Chemical reactions, Formulations, Herbicides, Pesticide application, Spraying.

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11096-69

NEBRASKA'S FIRST YEAR OF IMPLEMENTING THE NATIONALLY RECOMMENDED MODEL WEED LAW. (ABSTRACT).

E Carlson

*Weed Soc Amer Abstr 1967 MEETING*:80

1967 241 W41

Agricultural legislation, Agricultural regulation, Weed control.

11097-69

LEGISLATING CUSTOM SPRAYING. (ABSTRACT).

J C Hogancamp

*Weed Soc Amer Abstr 1967 MEETING*:80-81

1967 241 W41

Agricultural legislation, Agricultural regulation, Chemical control (weeds), Herbicides, Pesticide application, Spraying.

11098-69

THE PEST CONTROL OFFICER, PAST AND PRESENT. (GE)

H Klicewo W Hoos

*Prakt Schadlingsbekampfer* 20(8):109-113

Aug 1968 421 P882

Education, History, Legislation, Pest control. To be continued.

11099-69

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J E Vawter

*Weed Soc Amer Abstr 1967 MEETING*:81-82

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